

State of California
The Resources Agency

DEPARTMENT OF WATER RESOURCES
Division of Operations and Maintenance

STATE WATER PROJECT OPERATIONS DATA

For the month of:

**May
2009**

Edmund G. Brown Jr.
Governor
State of California

John Laird
Secretary for Resources
The Resources Agency

Mark Cowin
Director
Department of Water Resources

This monthly report of operational data for the State Water Project has been published since January 1965. Monthly SWP Operations Data Reports from January 1990 have been made available on the Internet at <http://www.water.ca.gov/swp/operationscontrol/projectwide.cfm>. It provides the State Water Service Contractors, public agencies, consultants and others with the daily and monthly status of the Project's water and power operations.

Revisions to these data will appear in the Annual Report of Operations reflecting corrections made after the monthly summaries have been printed.

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State of California
Department of Water Resources
P.O. Box 942836
Sacramento, CA 94236-0001

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Department of Water Resources
SUSAN SIMS, Chief Deputy Director

DALE HOFFMAN-	CARL	GARY	KATHIE	VACANT
FLOERKE	TORGERSSEN	BARDINI	KISHABA	Deputy Director
Deputy Director	Deputy Director	Deputy Director	Deputy Director	

DIVISION OF OPERATIONS AND MAINTENANCE

David Starks..... Chief, Division of Operations and Maintenance

This report was prepared under the direction of

David Roose..... Office Chief, Operations Control Office

John Leahigh..... Principal Engineer, Water Operations office

Tracy Hinojosa Branch Chief, Regulatory Compliance and Reporting Branch

By the Reporting Section

Guy Masier..... Section Chief, Reporting Section

Michael Nolasco..... Water Resources Engineering Associate (Specialist)

Mary Valdez Water Resources Engineering Associate (Specialist)

The organization shown above represents staff and positions relevant to this report as of publication date on May 2012. It is the Department's policy to not show staff in "Acting" or "Temporary" positions.

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MONTHLY HIGHLIGHTS

The following activities highlight actions that affected State Water Project operations during May 2009.

Statewide precipitation was about 80 percent of average for the water-year through May 31. Precipitation percentages are used in this report to express historical and regional comparisons. Additional and more specific information is available on the internet at
http://cdec.water.ca.gov/snow_rain.html

Snowpack and Statewide Runoff data is compiled four times annually, for the months of January, February, March, and April by the California Department of Water Resources in Bulletin 120. No Snowpack or Statewide Runoff data is available in May. Cumulative Unimpaired runoff for the 2008-09 water year for the Sacramento River Region was 11.1 maf, 70 percent of average, compared to 8.8 maf at this time in 2008.

Statewide reservoir storage was 85 percent of average to date. Total storage in major SWP reservoirs at the end of May 2009 was about maf compared to 3.09 maf at this time in 2008. On May 31, 2009, end-of-month storage at Lake Oroville was about 2.28 maf, as compared to 1.76 maf at this time in 2008. The State share of San Luis Reservoir's end-of-month storage was about 500 taf, as compared with 728 taf at this time in 2008. The combined storage in SWP's southern reservoirs was about 558 taf, compared with about 599 taf at this time in 2008.

SWP water deliveries to date through May 2009 were about 693 taf. Water deliveries are a combination of project, transfer, and exchange classifications. Total deliveries through this same period in 2008 were 1.045 maf.

On May 1, by mutual agreement, the United States Bureau of Reclamation and the California Department of Water Resources declared "Excess" Conditions in the Delta in accordance with Article 6(h) of the COA. "Excess" conditions remained through May 30 with restrictions due to fish concerns. On May 31, conditions in the Delta changed from "Excess" to "Balanced" and remained "Balanced" throughout the end of calendar year 2009. "Balanced" conditions exist when the DWR and the USBR agree that releases from upstream reservoirs plus unregulated flow approximately equal the water supply needed to meet Sacramento Valley in-basin uses, plus exports.

The Gorman Creek Improvement Canal was in and out of service several times during May due to minor damage at patched concrete locations.

Table 1. Antelope Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 22,566 ac-ft

May 2009

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	Water Supply Contract	Water Right					
Apr 30	5002.72	23,238									
* 1	est5002.73	23,248	10	5	0	0	83	5	93	98	
* 2	est5002.73	23,248	0	5	0	0	83	5	93	93	
* 3	est5002.73	23,248	0	5	0	0	83	5	93	93	
* 4	est5002.73	23,248	0	5	0	0	83	5	93	93	
* 5	est5002.93	23,437	189	5	0	0	123	5	133	228	
* 6	est5003.14	23,627	190	5	0	0	172	5	182	278	
7	5003.34	23,828	201	5	0	0	238	5	248	349	
* 8	est5003.24	23,733	-95	5	0	0	204	5	214	166	
* 9	est5003.14	23,637	-96	5	0	0	172	5	182	134	
* 10	est5003.04	23,542	-95	5	0	0	147	5	157	109	
* 11	est5002.94	23,447	-95	5	0	0	125	5	135	87	
* 12	est5002.84	23,352	-95	5	0	0	104	5	114	66	
* 13	est5002.70	23,219	-133	5	0	0	78	5	88	21	
14	5002.65	23,172	-47	5	0	0	69	5	79	55	
15	5002.59	23,116	-56	5	0	0	59	5	69	41	
16	5002.56	23,088	-28	5	0	0	54	5	64	50	
17	5002.53	23,059	-29	5	0	0	50	5	60	45	
18	5002.49	23,022	-37	5	0	0	44	5	54	35	
19	5002.48	23,012	-10	5	0	0	42	5	52	47	
20	5002.43	22,955	-57	5	0	0	36	5	46	17	
21	5002.42	22,956	1	5	0	0	34	5	44	45	
22	5002.40	22,937	-19	5	0	0	32	5	42	32	
23	5002.38	22,919	-18	5	0	0	29	5	39	30	
24	5002.37	22,909	-10	5	0	0	28	5	38	33	
25	5002.37	22,909	0	5	0	0	28	5	38	38	
26	5002.35	22,890	-19	5	0	0	26	5	36	26	
27	5002.33	22,872	-18	5	0	0	23	5	33	24	
28	5002.31	22,853	-19	12	0	0	21	5	38	28	
29	5002.27	22,816	-37	20	0	0	17	4	41	22	
30	5002.26	22,806	-10	20	0	0	16	4	40	35	
31	5002.24	22,788	-18	20	0	0	14	4	38	29	
Total cfs-days				---	207	0	0	2,317	152	2,676	
Total ac-ft				-450	411	0	0	4,596	301	5,307	
										4,857	

* Estimated daily values.

Table 2. Frenchman Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 55,477 ac-ft

May 2009

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	1/ Water Supply Contract	Water Right					
Apr 30	5568.58	29,826									
1	5568.59	29,837	11	2	4	0	0	6	12	18	
2	5568.62	29,869	32	2	4	0	0	6	12	28	
3	5568.67	29,923	54	2	4	0	0	6	12	39	
4	5568.72	29,976	53	2	7	0	0	6	15	42	
5	5568.76	30,019	43	2	7	0	0	6	15	37	
6	5568.78	30,040	21	2	8	0	0	6	16	27	
7	5568.80	30,062	22	2	8	0	0	6	16	27	
8	5568.81	30,073	11	2	8	0	0	6	16	22	
9	5568.82	30,083	10	2	8	0	0	6	16	21	
10	5568.82	30,083	0	2	8	0	0	6	16	16	
11	5568.82	30,083	0	2	8	0	0	6	16	16	
12	5568.77	30,030	-53	2	35	0	0	6	43	16	
13	5568.68	29,933	-97	0	56	0	0	6	62	13	
14	5568.58	29,826	-107	0	66	0	0	6	72	18	
15	5568.46	29,698	-128	0	66	0	0	6	72	7	
16	5568.35	29,582	-116	0	66	0	0	6	72	14	
17	5568.24	29,465	-117	0	66	0	0	6	72	13	
18	5568.07	29,285	-180	0	85	0	0	6	91	0	
19	5567.86	29,061	-224	0	99	0	0	5	104	-9	
20	5567.67	28,862	-199	0	96	0	0	5	101	1	
21	5567.48	28,663	-199	0	91	0	0	5	96	-4	
22	5567.27	28,445	-218	0	91	0	0	5	96	-14	
23	5567.09	28,259	-186	0	91	0	0	5	96	2	
24	5566.92	28,084	-175	0	71	0	0	5	76	-12	
25	5566.81	27,971	-113	0	57	0	0	5	62	5	
26	5566.75	27,909	-62	1	30	0	0	5	36	5	
27	5566.68	27,837	-72	1	35	0	0	5	41	5	
28	5566.58	27,735	-102	1	44	0	0	5	50	-1	
29	5566.48	27,633	-102	1	39	0	0	5	45	-6	
30	5566.40	27,551	-82	1	35	0	0	5	41	0	
31	5566.34	27,490	-61	1	35	0	0	5	41	10	
Total cfs-days				---	30	1,328	0	0	173	1,531	354
Total ac-ft				-2,336	60	2,634	0	0	344	3,038	702

1/ Last Chance Creek Water District.

Table 3. Lake Davis

Daily Operation

(in acre-feet except as noted)

Capacity: 84,371 ac-ft

May 2009

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	Water Right 1/	Water Supply Contract					
Apr 30	5765.15	49,736									
1	5765.21	49,918	182	10	0.2	0	0	17	27	119	
2	5765.32	50,246	328	10	0.2	0	0	17	27	192	
3	5765.43	50,578	332	10	0.2	0	0	17	27	194	
4	5765.55	50,941	363	10	0.2	0	0	17	27	210	
5	5765.69	51,367	426	10	0.2	0	0	16	26	241	
6	5765.73	51,489	122	10	0.2	0	0	16	26	88	
7	5765.77	51,611	122	10	0.2	0	0	16	26	88	
8	5765.78	51,642	31	10	0.2	0	0	16	26	42	
9	5765.80	51,703	61	10	0.2	0	0	16	26	57	
10	5765.80	51,703	0	10	0.2	0	0	16	26	26	
11	5765.79	51,673	-30	10	0.2	0	0	16	26	11	
12	5765.79	51,673	0	10	0.2	0	0	16	26	26	
13	5765.79	51,673	0	10	0.2	0	0	16	26	26	
14	5765.78	51,642	-31	10	0.2	0	0	16	26	10	
15	5765.77	51,611	-31	10	0.2	0	0	16	26	10	
16	5765.77	51,611	0	10	0.2	0	0	16	26	26	
17	5765.75	51,550	-61	10	0.2	0	0	16	26	-5	
18	5765.72	51,459	-91	10	0.2	0	0	16	26	-20	
19	5765.70	51,397	-62	10	0.2	0	0	16	26	-5	
20	5765.69	51,367	-30	10	0.2	0	0	16	26	11	
21	5765.68	51,337	-30	10	0.2	0	0	16	26	11	
22	5765.66	51,276	-61	10	0.2	0	0	16	26	-5	
23	5765.63	51,184	-92	10	0.2	0	0	16	26	-20	
24	5765.62	51,154	-30	10	0.2	0	0	16	26	11	
25	5765.61	51,123	-31	10	0.2	0	0	16	26	10	
26	5765.59	51,062	-61	10	0.2	0	0	16	26	-5	
27	5765.55	50,941	-121	10	0.2	0	0	16	26	-35	
28	5765.55	50,941	0	10	0.2	0	0	16	26	26	
29	5765.54	50,911	-30	10	0.2	0	0	16	26	11	
30	5765.53	50,880	-31	11	0.2	0	0	16	27	11	
31	5765.52	50,850	-30	11	0.2	0	0	16	27	12	
Total cfs-days				---	306	6	0	0	500	812	1,373
Total ac-ft				1,114	606	12	0	0	992	1,610	2,724

1/ Includes unclassified non-project diversions to local agencies (Valberti and Romelli).

Table 4. Lake Oroville

Daily Operation

(in acre-feet except as noted)

Capacity: 3,537,580 ac-ft

May 2009

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow							Inflow	
				Hyatt Powerplant Generation 1/	Palermo Canal 2/	Lime Saddle Marina	Butte County Del Oro	Evaporation 3/	Spill	Total Outflow	Hyatt Powerplant Pumpback	Computed Inflow 4/
Apr 30	787.63	2,055,311										
	1	787.25	2,051,218	-4,093	13,689	18	0	0	75	0	13,782	0
	2	788.90	2,069,033	17,815	10,729	14	0	0	36	0	10,779	0
	3	791.02	2,092,083	23,050	7,087	14	0	0	0	0	7,101	0
	4	792.42	2,107,405	15,322	10,510	14	0	0	48	0	10,572	0
	5	796.48	2,152,287	44,882	10,363	14	0	0	73	0	10,450	0
	6	798.39	2,173,633	21,346	13,233	14	0	0	80	0	13,327	0
	7	799.85	2,190,050	16,417	10,579	14	0	0	74	0	10,667	0
	8	801.32	2,206,668	16,618	7,104	14	0	0	204	0	7,322	0
	9	802.72	2,222,576	15,908	4,528	14	0	0	200	0	4,742	0
	10	804.09	2,238,222	15,646	2,419	14	0	0	213	0	2,646	0
	11	804.98	2,248,427	10,205	7,465	14	0	0	195	0	7,674	0
	12	805.63	2,255,900	7,473	8,403	18	0	0	214	0	8,635	0
	13	806.04	2,260,623	4,723	9,546	20	0	0	234	0	9,800	0
	14	806.14	2,261,776	1,153	11,341	23	0	0	177	0	11,541	0
	15	806.29	2,263,506	1,730	10,774	24	0	0	209	0	11,007	0
	16	806.62	2,267,316	3,810	9,120	24	0	0	228	0	9,372	0
	17	806.45	2,265,353	-1,963	14,167	24	0	0	311	0	14,502	0
	18	807.10	2,272,866	7,513	6,032	24	0	0	286	0	6,342	0
	19	807.36	2,275,876	3,010	8,648	24	0	0	228	0	8,900	0
	20	807.94	2,282,600	6,724	4,173	24	0	0	236	0	4,433	0
	21	808.18	2,285,387	2,787	6,876	24	0	0	178	0	7,078	0
	22	808.05	2,283,877	-1,510	10,218	25	0	0	261	0	10,504	0
	23	808.26	2,286,316	2,439	6,722	26	0	0	210	0	6,958	0
	24	808.36	2,287,478	1,162	6,174	26	0	0	191	0	6,391	0
	25	808.22	2,285,851	-1,627	9,413	26	0	0	178	0	9,617	0
	26	807.75	2,280,395	-5,456	12,419	26	0	0	210	0	12,655	0
	27	807.47	2,277,150	-3,245	9,635	26	0	1	236	0	9,898	0
	28	807.43	2,276,687	-463	6,956	26	0	1	261	0	7,244	0
	29	807.67	2,279,468	2,781	3,576	26	0	1	287	0	3,890	0
	30	807.94	2,282,600	3,132	2,243	26	0	1	236	0	2,506	0
	31	807.88	2,281,904	-696	5,273	26	0	1	185	0	5,485	0
Total				226,593	259,415	646	0	5	5,754	0	265,820	0
492,413												

1/ Includes bypass flows

2/ South Feather Water and Power Agency

3/ Evaporation will be zero for days when there is precipitation or heavy overcast.

4/ Does not include pumpback.

**Table 5. Thermalito Forebay
Including Diversion Pool and Power Canal**

Daily Operation

(in acre-feet except as noted)

May 2009

Capacity: 25,120 ac-ft

Date	Storage 1/	Storage Change	Inflow			Outflow					Losses (-) And Gains (+)
			Lake Oroville Releases 2/	Kelly Ridge Generation	Thermalito Pumping- Generating Plant Pumpback	Thermalito Pumping- Generating Plant Generation 3/	Butte County Cal Water	Thermalito Irrigation District	Releases To River 4/	Hyatt Powerplant Pumpback	
Apr 30	23,419										
1	23,865	446	13,689	463	0	12,386	0	6	1,353	0	39
2	23,715	-150	10,729	463	0	10,276	0	6	1,265	0	205
3	23,631	-84	7,087	463	0	6,455	0	6	1,265	0	92
4	23,660	29	10,510	458	0	9,717	0	6	1,267	0	51
5	23,343	-317	10,363	419	0	10,138	0	6	1,267	0	312
6	23,788	445	13,233	466	0	11,940	0	6	1,267	0	-41
7	23,911	123	10,579	461	0	9,686	0	6	1,267	0	42
8	24,070	159	7,104	462	0	6,152	0	6	1,267	0	18
9	24,599	529	4,528	463	0	3,300	0	6	1,267	0	111
10	24,002	-597	2,419	462	0	2,486	0	6	1,262	0	276
11	23,750	-252	7,465	462	0	6,926	0	6	1,267	0	20
12	23,264	-486	8,403	462	0	8,052	0	6	1,267	0	-26
13	23,652	388	9,546	462	0	8,302	0	6	1,267	0	-45
14	23,316	-336	11,341	462	0	11,083	0	6	1,267	0	217
15	23,352	36	10,774	463	0	9,926	0	6	1,265	0	-4
16	23,860	508	9,120	463	0	7,741	0	6	1,424	0	96
17	23,732	-128	14,167	458	0	12,586	0	6	1,267	0	-894
18	23,744	12	6,032	459	0	5,194	0	6	1,267	0	-12
19	23,745	1	8,648	463	0	7,836	0	6	1,267	0	-1
20	23,726	-19	4,173	463	0	3,663	0	6	1,269	0	283
21	23,868	142	6,876	464	0	6,039	0	6	1,283	0	130
22	23,638	-230	10,218	464	0	8,829	0	6	1,289	0	-788
23	23,908	270	6,722	464	0	5,828	0	6	1,289	0	207
24	23,884	-24	6,174	464	0	5,334	0	6	1,289	0	-33
25	23,751	-133	9,413	482	0	8,712	0	7	1,289	0	-20
26	23,707	-44	12,419	467	0	11,596	0	7	1,289	0	-38
27	24,185	478	9,635	466	0	8,528	0	7	1,291	0	203
28	23,770	-415	6,956	464	0	6,480	0	7	1,289	0	-59
29	23,928	158	3,576	464	0	2,628	0	7	1,299	0	52
30	23,667	-261	2,243	464	0	1,782	0	7	1,305	0	126
31	23,832	165	5,273	436	0	4,403	0	7	1,289	0	155
Total		413	259,415	14,296	0	234,004	0	193	39,775	0	674

1/ Sum of Thermalito Forebay and Diversion Pool.

2/ Sum of releases from Lake Oroville through Hyatt plant, and spill.

3/ Includes Bypass flows at Thermalito.

4/ The sum of the flows from fish barrier dam and the fish hatchery.

Table 6. Thermalito Afterbay

Daily Operation
(in acre-feet except as noted)

Capacity: 57,040 ac-ft

May 2009

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow					Losses (-) and Gains (+)	Total Releases to River 2/
				Thermalito Pumping-Generating Plant Generation 1/	Sutter Butte Canal	Western Canal Lateral	Richvale Canal	Western Canal	Afterbay River Outlet	Thermalito Pumping-Generating Plant Pumpback		
Apr 30	133.85	46,129										
	1	133.71	45,580	-549	12,386	3,233	0	639	2,083	7,339	0	359
	2	133.25	43,797	-1,783	10,276	3,174	18	635	1,984	6,070	0	-178
	3	132.10	39,485	-4,312	6,455	2,916	30	460	1,571	5,752	0	-38
	4	132.00	39,120	-365	9,717	2,598	30	331	1,232	5,752	0	-139
	5	132.22	39,925	805	10,138	2,321	30	284	966	5,177	0	-555
	6	133.32	44,066	4,141	11,940	2,142	30	256	791	4,066	0	-514
	7	133.97	46,602	2,536	9,686	2,083	24	244	718	3,749	0	-332
	8	133.72	45,619	-983	6,152	2,063	19	242	748	3,610	0	-453
	9	132.82	42,160	-3,459	3,300	2,122	20	290	914	3,074	0	-339
	10	131.43	37,069	-5,091	2,486	2,341	34	494	1,125	2,955	0	-628
	11	131.17	36,150	-919	6,926	2,618	42	551	1,349	2,955	0	-330
	12	131.20	36,256	106	8,052	2,836	30	551	1,573	2,678	0	-278
	13	131.33	36,714	458	8,302	2,936	26	551	1,815	2,360	0	-156
	14	132.15	39,668	2,954	11,083	3,174	28	518	1,960	1,878	0	-571
	15	132.59	41,297	1,629	9,926	3,312	16	635	2,281	1,490	0	-563
	16	132.56	41,185	-112	7,741	3,253	9	653	2,301	1,222	0	-415
	17	133.85	46,129	4,944	12,586	3,293	9	726	2,241	1,154	0	-219
	18	133.30	43,989	-2,140	5,194	3,273	7	752	2,122	1,141	0	-39
	19	133.42	44,452	463	7,836	3,154	6	780	1,950	1,158	0	-325
	20	132.42	40,664	-3,788	3,663	3,094	8	710	1,894	1,152	0	-593
	21	132.14	39,631	-1,033	6,039	3,094	11	668	1,960	1,139	0	-200
	22	132.63	41,446	1,815	8,829	3,035	17	684	1,940	1,144	0	-194
	23	132.28	40,146	-1,300	5,828	2,955	18	748	1,898	1,152	0	-357
	24	131.85	38,575	-1,571	5,334	2,896	16	772	1,809	1,141	0	-271
	25	132.37	40,479	1,904	8,712	2,836	14	736	1,738	1,156	0	-328
	26	133.70	45,541	5,062	11,596	2,836	14	666	1,692	1,158	0	-168
	27	134.27	47,791	2,250	8,528	2,856	14	557	1,640	1,148	0	-63
	28	134.20	47,512	-279	6,480	2,876	15	524	1,569	1,617	0	-158
	29	132.67	41,596	-5,916	2,628	2,916	15	522	1,565	3,332	0	-194
	30	130.03	32,251	-9,345	1,782	2,955	15	559	1,638	5,752	0	-208
	31	127.93	25,621	-6,630	4,403	-2,955	17	635	1,658	5,752	0	-5,926
Total				-20,508	234,004	82,236	582	17,370	50,730	89,223	0	-14,371
												128,998

1/ Includes Bypass flows at Thermalito.

2/ The sum of the flows from the fish barrier dam, fish hatchery, and afterbay river outlet.

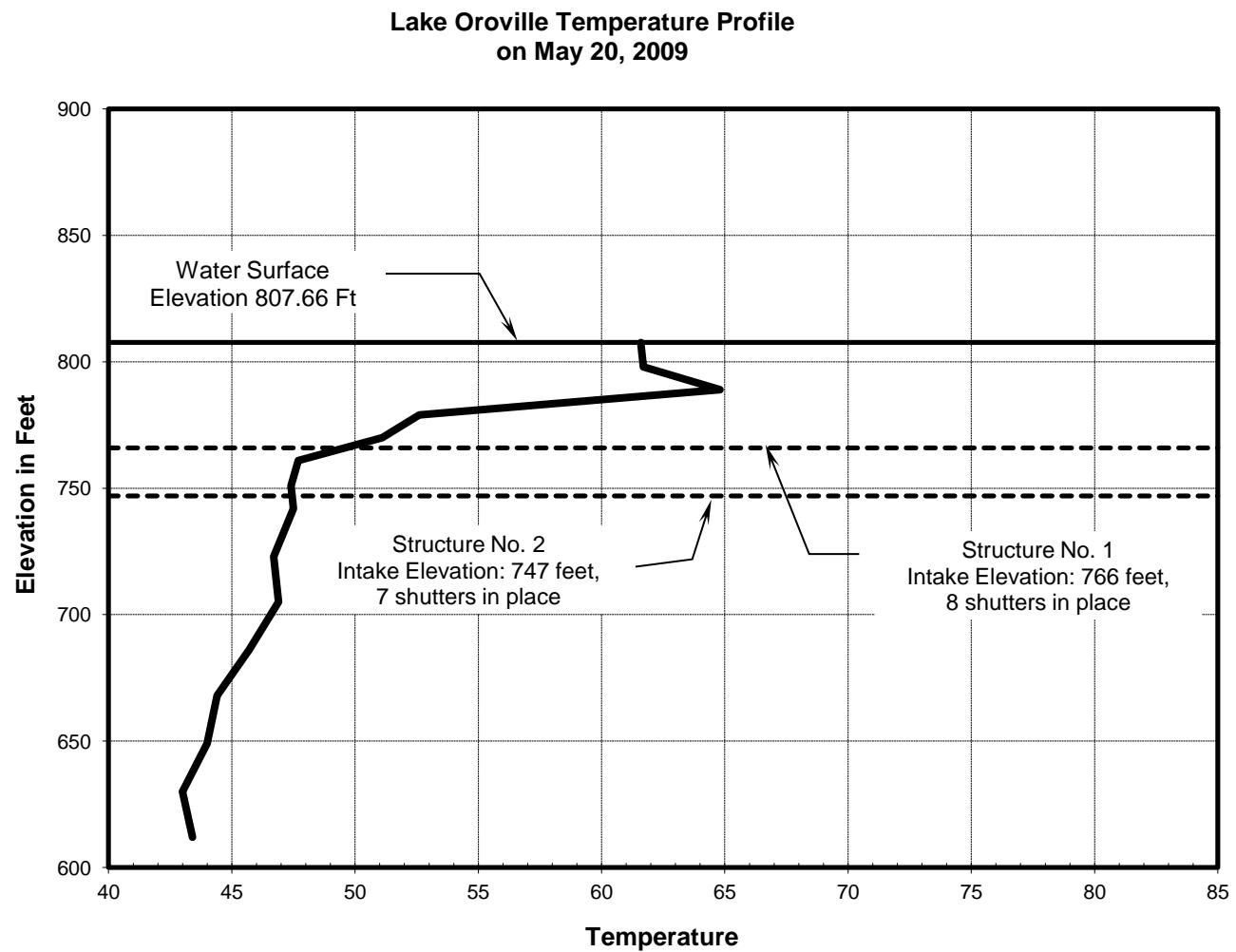
Table 7. Oroville-Thermalito Complex

Water Temperature Data

(in degrees Fahrenheit)

May 2009

Date	Mean Daily Temperature	
	Thermalito Afterbay Outlet	Fish Hatchery
1	54	52
2	53	52
3	54	51
4	55	51
5	56	52
6	57	51
7	59	51
8	60	52
9	61	52
10	62	52
11	62	52
12	63	52
13	65	52
14	63	52
15	64	52
16	62	52
17	61	53
18	60	53
19	59	53
20	60	54
21	62	55
22	63	55
23	62	56
24	61	55
25	63	56
26	64	57
27	63	58
28	62	58
29	64	57
30	66	55
31	69	55



Note: Water surface elevations on Table 4 are taken at Oroville Dam at midnight and may differ slightly from those shown on this table which are normally taken at mid-day and upstream from Oroville Dam.

Table 8. North Bay Aqueduct
 Delta Field Division, Monthly Deliveries

(In acre-feet)

May 2009

Reach No.	Operating Pool		Turnout	Total Diversions	Deliveries					
	Beginning and Ending				Table A	Permit	Article 21	2009 Drought Water Bank	Settlement	
	No.	Structure	Mile							
1	1	Barker Slough Pumping Plant	0.17	(Into the North Bay Aqueduct)	5,504	275	317	1,085	47	
		Travis Surge Tank	8.78							
			8.80	Solano County Water Agency Travis AFB	275					
			10.54	Solano County Water Agency Fairfield / Vacaville 24"	317					
				Solano County Water Agency Fairfield / Vacaville 42"	1,132					
			17.00	Solano County Water Agency Central Solano	Stub					
2	3A	Cordelia Forebay	21.23			43	1,176	1,082	36	
		Cordelia Pumping Plant & Cordelia Spillway	21.30		3,674					
		Napa Pipeline	21.33	Solano County Water Agency Vallejo	1,219					
				Solano County Water Agency Benicia	1,118					
		Cordelia Surge Tank	23.33							
		Creston Surge Tank Connection	25.65							
3B	2		26.95	Napa County Flood Control & WCD American Canyon 2	300	300	993	43	1	
			27.27	Napa County Flood Control & WCD American Canyon 3	0					
		Napa Terminal Tank	27.58	City of Napa	1,036					
			27.60	Napa County Flood Control & WCD American Canyon 1	1					

Table 9. Delta Field Division Plant Data

(in acre-feet)

May 2009

Date	North Bay Aqueduct		California Aqueduct		South Bay Aqueduct			
	Barker Slough Pumping Plant	Cordelia Pumping Plant	Banks Pumping Plant		South Bay Pumping Plant	Del Valle Pumping Plant		
			Total	SWP		Into Lake	Into Aqueduct	Gravity Flow Through Plant Into Aqueduct
1	125	96	2,140	2,140	489	50	0	0
2	151	108	2,136	2,136	478	50	0	0
3	139	115	2,139	2,139	478	50	0	0
4	142	121	2,136	2,136	496	50	0	0
5	133	104	2,139	2,139	468	47	0	0
6	134	101	1,338	1,338	415	0	0	20
7	132	101	2,159	2,159	409	0	0	21
8	139	106	2,152	2,152	428	0	0	20
9	135	100	2,148	2,148	504	63	0	0
10	132	103	4,328	4,328	534	111	0	-1
11	134	106	4,853	4,853	442	61	0	21
12	149	128	0	0	311	0	0	133
13	168	124	0	0	309	0	0	154
14	196	126	0	0	300	0	0	154
15	206	130	2,499	2,499	348	0	0	129
16	205	131	2,257	2,257	398	0	0	61
17	219	141	2,233	2,233	435	0	0	0
18	217	142	4,350	4,350	477	0	0	0
19	208	135	3,487	3,487	474	0	0	0
20	160	88	1,244	1,244	469	5	0	0
21	165	88	1,583	1,583	542	70	0	0
22	217	126	841	841	543	83	0	0
23	230	144	2,760	2,760	542	83	0	0
24	202	118	2,569	2,569	534	80	0	0
25	175	95	2,624	2,624	533	80	0	0
26	205	121	2,558	2,558	544	80	0	0
27	222	141	2,634	2,634	440	6	0	17
28	221	138	415	415	512	44	0	1
29	224	135	902	902	476	55	0	14
30	212	128	0	0	305	0	0	160
31	207	134	0	0	253	0	0	219
Total	5,504	3,674	60,624	60,624	13,886	1,067	0	1,123

Table 10. Clifton Court Forebay

Daily Operation of Gates

May 2009

Date	Time								Amount of inflow in Acre-Feet
	Opened	Closed	Opened	Closed	Opened	Closed	Opened	Closed	
1		8:16							1,971
2	0:01	8:16							1,978
3	0:01	9:00							1,961
4	0:01	7:56	11:05	13:12					2,163
5	0:46	11:00	14:00	15:33					2,572
6	0:01	2:30	5:45	11:45	17:50				2,561
7	0:10	3:15	6:15	12:30	15:30	17:45			2,568
8	0:01	4:00	6:45	13:00	16:00	18:30			2,562
9	0:01	4:45	7:15	13:45	17:00	17:15			2,556
10	0:01	5:15	7:46	14:45					2,561
11	0:05	6:00	8:16	13:15					2,960
12	0:01	6:45	9:45	15:30	21:30	23:20			2,957
13	0:01	7:30	9:30	14:47					2,953
14	0:01	8:30							1,565
15	0:01	5:40							983
16	0:01	4:35							980
17	0:01	4:00							981
18	0:01	9:36							2,579
19	0:01	8:09	14:45	15:00					2,564
20	0:01	1:00	4:15	10:30	13:30	18:25			2,551
21	0:01	2:00	4:45	11:15	14:15	16:34			2,551
22	0:01	2:45	5:30	12:00	15:00	17:47			2,570
23	0:01	3:15	6:00	12:30	15:30	17:20			2,560
24	0:01	4:00	6:45	13:15	18:50	20:04			2,540
25	0:01	4:45	7:30	14:00					2,574
26	0:01	5:45	8:30	13:55					2,572
27	0:01	6:45	8:00	10:10					2,568
28	0:01	5:35	22:03						979
29		7:05	21:00	22:40					983
30	12:15	17:30							980
31	13:30	18:26							959
Total inflow for the month in AF:								66,362	

Table 11. Governor Edmund G. Brown California Aqueduct

Delta Field Division, Monthly Deliveries

(In acre-feet)

May 2009

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries							
	Beginning and Ending		No.			Table A	USBR	General Conveyance	Article 56C	Local Other			
	No.	Structure	Mile										
1A			1.83	Byron-Bethany I.D.	4,428					4,428			
1	1	Banks Pumping Plant	3.32		60,624		37						
		South Bay Pumping Plant	4.49	Bethany Reservoir (Into the South Bay Aquaduct)	13,886								
		Check No. 1	5.95										
			8.08	Alameda Co. Zone 7 WA Mountain House Golf Course	0								
	2	Check No. 2	12.01										
			12.47	Musco Olive	37								
		Check No. 3	18.29										
	3		22.16	Tracy Golf & Country Club	0								
		Check No. 4	23.99										
2A	4	Check No. 5	29.73										
	5	Check No. 6	34.24										
	6		35.22	Turlock Fruit Company Inflow	0								
		Check No. 7	39.91										
	7		42.46	Oak Flat Water District-A	61		61	144					
			42.9	Western Hills WD	144								
			43.81	Oak Flat Water District-B	28		28						
			44.64	Oak Flat Water District-C	124								
		Check No. 8	45.97				124						
	8		46.18	Oak Flat Water District-D	140								
				Oak Flat Totals:	353		140	0	0	0			
2B	9	Check No. 9	51.3										
		Check No. 10	56.86										
	10	Check No. 11	61.4										
	11		66.14	Veteran's Cemetery	22		22						
		Check No. 12	66.71		43,359								

Table 12. South Bay Aqueduct
Delta Field Division, Monthly Deliveries

(In acre-feet)

May 2009

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries							
	Beginning and Ending					Table A	Local	Article 56C	Semitropic Bank Recovery	Recreation			
	No.	Structure	Mile										
1	1	South Bay Pumping Plant	0.00	(into South Bay Aqueduct)	13,886	3	26	919					
			3.17	Granite - Vasco Rd. (Temp.)	0								
			3.18	Oakland Scavenger Zone 7	3								
	2	Check No. 1	3.91										
		Check No. 2	5.21										
	3		7.21	Zone 7 Water Agency Altamont	26								
		Check No. 3	9.49	Zone 7 Water Agency Patterson									
				Storage Exchange Project Water	0								
2	4	Check No. 4	10.68										
	5	Check No. 5	12.29										
	6		13.55	Zone 7 Water Agency Wente #1	121		121						
			14.16	Zone 7 Water Agency Wente #2	80								
			14.31	Zone 7 Water Agency Ising	22								
		Check No. 6	14.65										
4	7		14.78	Zone 7 Water Agency Arroyo Mocho Project Water	0	72	34	341	13				
		Check No. 7	16.38										
	8		16.57	Zone 7 Water Agency Wente #3	0								
			16.63	Zone 7 Water Agency Wente #4	72								
			16.69	Zone 7 Water Agency Norman Nursery	0								
			16.70	Zone 7 Water Agency Concannon Project Water	34								
		Del Valle Branch Pipeline Junction	18.63	Pumped into Lake Del Valle	1,067								
5	8			Pumped into South Bay Aqueduct	0								
				Gravity into South Bay Aqueduct	1,123								
		Del Valle Branch Pipeline		Zone 7 Water Agency Arroyo Valle #1 & #2 Project Water	35		35	341	1/ 114				
				Storage Exchange Inflow Release	0								
				East Bay Regional Park Dist. Del Valle Recreation	341								
				Zone 7 Water Agency Wente #5	77		77	1,689	1/ 605				
6			19.20	Zone 7 Water Agency So. Livermore Project Storage Exchange Project Water	1,988		113	415	1/ 114				
			19.21	Zone 7 - Kalthrof Detjens	415								
7	La Costa Tunnel		22.50	ACWD - Vallecitos Project Water	0								
			25.97	City of San Francisco San Antonio	0								
8	Mission Tunnel		28.97	ACWD - Bayside 1 & 2 Project Water Storage Exchange	467		353	1,689	1/ 114				
9	Santa Clara Pipeline		35.86	S.C.V.W.D. Meter	1,689								

1/ Recovery supplied through an exchange.

Table 13. Lake Del Valle
Daily Operation

Capacity: 77,106 ac-ft

May 2009

Date	Water Surface Elevation (feet)	Storage	Storage Change	Inflow		Outflow					Precipitation (inches)
				Natural 1/	From South Bay Aqueduct	Arroyo Valle	South Bay Aqueduct 2/	Recreation Deliveries 3/	Evaporation	Total Outflow	
Apr 30	701.57	38,911									
1	701.66	38,973	63	22	50	0	0	1	8	9	0.02
2	701.75	39,036	63	15	50	0	0	1	2	3	0.24
3	701.84	39,099	63	16	50	0	0	1	2	3	0.06
4	701.92	39,155	56	10	50	0	0	1	3	4	0.11
5	701.99	39,204	49	8	47	0	0	1	6	7	0.00
6	701.98	39,197	-7	24	0	0	20	1	10	31	0.00
7	701.96	39,183	-14	17	0	0	21	1	9	31	0.00
8	701.93	39,162	-21	10	0	0	20	1	10	31	0.00
9	701.98	39,197	35	-12	63	0	0	1	15	16	0.00
10	702.16	39,323	126	26	111	0	-1	1	11	11	0.00
11	702.20	39,351	28	3	61	0	21	1	13	35	0.00
12	702.16	39,323	-28	118	0	0	133	1	12	146	0.00
13	701.82	39,085	-238	-71	0	0	154	1	11	166	0.00
14	701.63	38,953	-133	33	0	0	154	0	11	165	0.00
15	701.47	38,841	-111	25	0	0	129	0	7	136	0.00
16	701.39	38,786	-56	18	0	0	61	0	12	73	0.00
17	701.38	38,779	-7	8	0	0	0	0	15	15	0.00
18	701.36	38,765	-14	3	0	0	0	0	17	17	0.00
19	701.35	38,758	-7	7	0	0	0	0	14	14	0.00
20	701.33	38,744	-14	-6	5	0	0	0	13	13	0.00
21	701.40	38,793	49	-10	70	0	0	0	11	11	0.00
22	701.50	38,862	70	-3	83	0	0	0	11	11	0.00
23	701.60	38,932	70	-2	83	0	0	0	11	11	0.00
24	701.64	38,960	28	-42	80	0	0	0	10	10	0.00
25	701.75	39,036	77	7	80	0	0	0	11	11	0.00
26	701.85	39,106	70	-2	80	0	0	0	8	8	0.00
27	701.90	39,141	35	59	6	0	17	0	12	29	0.00
28	701.91	39,148	7	-21	44	0	1	0	15	16	0.00
29	702.00	39,211	63	34	55	0	14	0	11	25	0.00
30	701.78	39,057	-154	17	0	0	160	0	11	171	0.00
31	701.50	38,862	-195	35	0	0	219	0	11	230	0.00
Total				-49	346	1,067	0	1,123	13	326	1,462

1/ Total inflow from stream gaging station above Lang Canyon and accretions/depletions.

2/ Project water released to South Bay Aqueduct through Del Valle Pumping Plant.

3/ To East Bay Regional Park District.

NR=No Records

Table 14. Consolidated State-Federal O'Neill Forebay

Daily Operations

May 2009

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity 56,430 ac-ft

Date	Water Surface Elevation (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)				Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)	
				Pump In 1/	O'Neill Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	California Aqueduct	O'Neill Pumping Generating Plant (Generation)	Gianelli Pumping Generating Plant (Pumped)	Dos Amigos Pumping Plant	Deliveries 2/		
Apr 30	220.74	45,080											
1	220.20	43,671	-1,409	0	0	2,120	785	1,434	0	2,327	10	156	
2	220.31	43,957	286	0	0	2,931	503	980	0	2,342	6	38	
3	220.75	45,106	1,149	0	0	3,382	1,114	520	0	3,163	6	-228	
4	221.55	47,204	2,098	0	0	3,494	411	320	0	2,386	6	-135	
5	222.61	50,006	2,802	0	0	3,250	1,008	329	0	2,650	14	148	
6	221.08	45,970	-4,036	0	0	1,125	511	334	0	3,369	26	58	
7	220.38	44,140	-1,830	0	0	2,406	846	453	0	3,338	19	-365	
8	220.41	44,218	78	0	0	2,902	682	475	0	3,190	19	139	
9	219.78	42,583	-1,635	0	0	1,953	810	528	0	3,018	1	-40	
10	220.25	43,801	1,218	0	0	4,147	1,659	563	0	4,559	1	-69	
11	221.26	46,442	2,641	0	0	2,088	1,892	729	0	1,712	11	-197	
12	221.48	47,020	578	0	0	3,808	0	1,325	0	1,909	20	-263	
13	221.48	47,020	0	0	0	3,659	0	1,267	0	2,361	11	-20	
14	220.93	45,577	-1,443	0	0	3,663	0	472	0	3,482	11	-426	
15	220.46	44,348	-1,229	0	0	2,645	635	493	0	2,942	13	-452	
16	220.81	45,263	915	0	0	2,633	1,333	537	0	2,958	10	0	
17	220.44	44,296	-967	0	0	3,223	253	714	0	2,958	7	-285	
18	220.51	44,479	183	0	0	2,427	2,233	1,400	0	2,629	7	-532	
19	220.36	44,088	-391	0	0	3,263	1,693	2,049	0	2,810	20	-274	
20	220.36	44,088	0	0	0	5,886	191	2,037	0	3,900	21	-119	
21	220.99	45,734	1,646	0	0	6,334	448	2,093	0	3,804	22	-33	
22	221.74	47,703	1,969	0	0	6,634	160	2,016	0	3,598	17	-170	
23	221.01	45,787	-1,916	0	0	4,270	661	1,924	0	4,054	19	100	
24	220.82	45,289	-498	0	0	4,156	1,055	1,895	0	3,668	22	123	
25	221.96	48,282	2,993	0	0	4,851	1,356	1,670	0	3,047	19	38	
26	222.48	49,660	1,378	0	0	5,132	530	1,551	0	3,267	22	-127	
27	222.04	48,491	-1,169	0	0	3,662	978	1,556	0	3,597	7	-69	
28	220.54	44,557	-3,934	0	0	3,530	0	1,762	0	3,796	12	57	
29	220.21	43,697	-860	0	0	6,331	113	1,919	0	4,576	25	-358	
30	219.99	43,126	-571	0	0	6,001	0	2,063	0	4,072	19	-135	
31	220.51	44,479	1,353	0	0	7,502	0	2,774	0	3,922	13	-111	
Total				-601	0	0	119,408	21,860	38,182	0	99,404	436	-3,551
Mean cfs				---	0	0	3,852	705	1,232	0	3,207	14	-115
Acre-feet				-601	0	0	236,846	43,359	75,737	0	197,168	865	-7,036

1/ Pump-in located at Mile 79.67R.

2/ Includes 100 AF delivered to DFG at O'Neill Forebay, 2 AF to Parks & Rec., and 763 AF to San Luis Water District.

Table 15. Consolidated State-Federal San Luis Reservoir

Daily Operations

May 2009

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity: 2,027,835 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)			Computed Losses (-) Gains (+) (cfs)
				Gianelli Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	Pacheco Tunnel 1/	Parks and Rec. Del.		
Apr 30	448.68	959,210							
1	448.25	954,969	-4,241	0	2,120	166	0	148	
2	447.63	948,865	-6,104	0	2,931	157	0	11	
3	446.94	942,087	-6,778	0	3,382	156	0	121	
4	446.22	935,032	-7,055	0	3,494	167	0	104	
5	445.54	928,385	-6,647	0	3,250	186	0	85	
6	445.27	925,750	-2,635	0	1,125	159	0	-44	
7	444.74	920,585	-5,165	0	2,406	192	0	-6	
8	444.11	914,459	-6,126	0	2,902	212	0	26	
9	443.66	910,091	-4,368	0	1,953	212	0	-37	
10	442.80	901,763	-8,328	0	4,147	209	0	157	
11	442.32	897,127	-4,636	0	2,088	212	0	-37	
12	441.62	890,379	-6,748	0	3,808	216	0	622	
13	440.82	882,689	-7,690	0	3,659	237	0	19	
14	440.00	874,830	-7,859	0	3,663	249	0	-50	
15	439.42	869,286	-5,544	0	2,645	253	0	103	
16	438.82	863,563	-5,723	0	2,633	276	0	24	
17	438.10	856,712	-6,851	0	3,223	280	0	49	
18	437.53	851,302	-5,410	0	2,427	274	0	-27	
19	436.82	844,579	-6,723	0	3,263	285	0	159	
20	435.55	832,599	-11,980	0	5,886	263	0	109	
21	434.17	819,647	-12,952	0	6,334	296	0	100	
22	432.73	806,206	-13,441	0	6,634	209	0	67	
23	431.74	797,010	-9,196	0	4,270	384	0	18	
24	430.80	788,311	-8,699	0	4,156	266	0	36	
25	429.71	778,265	-10,046	0	4,851	272	0	58	
26	428.34	765,702	-12,563	0	5,132	290	0	-912	
27	427.49	757,942	-7,760	0	3,662	288	0	38	
28	426.68	750,573	-7,369	0	3,530	292	0	107	
29	425.30	738,075	-12,498	0	6,331	292	0	322	
30	423.94	725,813	-12,262	0	6,001	316	0	135	
31	422.24	710,595	-15,218	0	7,502	221	0	51	
Total			-248,615	0	119,408	7,487	0	1,556	
Mean cfs			---	0	3,852	242	0	50	
Acre-feet			-248,615	0	236,846	14,850	0	3,081	

1/ Pacheco Tunnel, San Felipe Split; Santa Clara 13,449 AF, Casa De Fruta 0 AF, and San Benito 1,401 AF.

Table 16. San Luis Field Division Plant Data

(in acre-feet)

May 2009

Date	Dos Amigos Pumping Plant		Gianelli Pumping - Generating Plant				San Felipe Project
	Total Pumping	SWP Pumping 1/ 2/	Total Generation	SWP Generation 1/ 2/	Total Pumping	SWP Pumping 1/ 2/	Federal
1	4,616	2,619	4,205	-134	0	0	330
2	4,645	2,611	5,814	1,454	0	0	312
3	6,274	4,217	6,709	1,998	0	0	310
4	4,732	2,732	6,931	1,743	0	0	332
5	5,256	3,207	6,446	1,216	0	0	369
6	6,682	4,636	2,231	2,231	0	0	315
7	6,621	4,716	4,772	4,772	0	0	381
8	6,327	4,293	5,757	1,794	0	0	420
9	5,987	3,995	3,873	3,873	0	0	420
10	9,042	9,042	8,225	6,072	0	0	414
11	3,772	1,752	4,142	-162	0	0	421
12	4,208	2,152	7,554	3,513	0	0	428
13	5,204	3,151	7,258	3,956	0	0	470
14	7,675	5,636	7,265	3,945	0	0	493
15	6,484	4,445	5,246	1,931	0	0	501
16	6,519	4,492	5,222	1,904	0	0	547
17	6,519	4,411	6,393	3,076	0	0	555
18	5,795	3,757	4,813	1,492	0	0	543
19	6,193	4,132	6,473	1,000	0	0	566
20	8,595	6,554	11,674	4,592	0	0	521
21	8,385	6,344	12,564	5,413	0	0	588
22	7,929	4,862	13,158	5,957	0	0	414
23	8,936	5,832	8,470	1,210	0	0	762
24	8,084	4,947	8,243	1,010	0	0	527
25	6,714	3,646	9,622	2,330	0	0	539
26	7,200	4,094	10,180	2,009	0	0	576
27	7,927	4,778	7,263	4,418	0	0	571
28	8,367	5,244	7,002	2,427	0	0	580
29	10,084	7,048	12,557	7,040	0	0	580
30	8,974	6,079	11,903	5,725	0	0	626
31	8,643	5,542	14,881	6,567	0	0	439
Total	212,389	140,966	236,846	94,372	0	0	14,850

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

2/ Provisional, subject to change.

Table 17. Consolidated State-Federal Los Banos Reservoir

Daily Operations
May 2009

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Capacity 34,560 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Apr 30	325.11	19,334					
1	325.13	19,343	9	5	0	0	-1
2	325.13	19,343	0	0	0	0	0
3	325.12	19,338	-5	0	0	0	-5
4	325.12	19,338	0	0	0	0	0
5	325.11	19,334	-4	0	0	0	-4
6	325.10	19,329	-5	0	0	0	-5
7	325.09	19,325	-4	0	0	0	-4
8	325.07	19,315	-10	0	0	0	-10
9	325.06	19,311	-4	0	0	0	-4
10	325.04	19,302	-9	0	0	0	-9
11	325.00	19,284	-18	0	0	0	-18
12	324.97	19,270	-14	0	0	0	-14
13	324.95	19,261	-9	0	0	0	-9
14	324.94	19,257	-4	0	0	0	-4
15	324.93	19,252	-5	0	0	0	-5
16	324.92	19,247	-5	0	0	0	-5
17	324.91	19,243	-4	0	0	0	-4
18	324.89	19,234	-9	0	0	0	-9
19	324.85	19,216	-18	0	0	0	-18
20	324.82	19,202	-14	0	0	0	-14
21	324.79	19,189	-13	0	0	0	-13
22	324.76	19,175	-14	0	0	0	-14
23	324.72	19,157	-18	0	0	0	-18
24	324.69	19,143	-14	0	0	0	-14
25	324.68	19,139	-4	0	0	0	-4
26	324.67	19,134	-5	0	0	0	-5
27	324.65	19,125	-9	0	0	0	-9
28	324.63	19,116	-9	0	0	0	-9
29	324.60	19,103	-13	0	0	0	-13
30	324.57	19,089	-14	0	0	0	-14
31	324.55	19,080	-9	0	0	0	-9
Total			-254	5	0	0	-264
Mean cfs			---	0	0	0	---
Acre-feet			-254	10	0	0	-264

Table 18. Consolidated State-Federal Little Panoche Reservoir

Daily Operations

May 2009

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

Capacity: 5,580 ac-ft

State of California

The Resources Agency

Department of Water Resources

State Water Project

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Apr 30	600.50	709					
1	600.50	709	0	0	0	0	0
2	600.50	709	0	0	0	0	0
3	600.50	709	0	0	0	0	0
4	600.50	709	0	0	0	0	0
5	600.50	709	0	0	0	0	0
6	600.50	709	0	0	0	0	0
7	600.50	709	0	0	0	0	0
8	600.50	709	0	0	0	0	0
9	600.50	709	0	0	0	0	0
10	600.50	709	0	0	0	0	0
11	600.50	709	0	0	0	0	0
12	600.50	709	0	0	0	0	0
13	600.50	709	0	0	0	0	0
14	600.50	709	0	0	0	0	0
15	600.50	709	0	0	0	0	0
16	600.50	709	0	0	0	0	0
17	600.50	709	0	0	0	0	0
18	600.50	709	0	0	0	0	0
19	600.50	709	0	0	0	0	0
20	600.50	709	0	0	0	0	0
21	600.50	709	0	0	0	0	0
22	600.50	709	0	0	0	0	0
23	600.50	709	0	0	0	0	0
24	600.50	709	0	0	0	0	0
25	600.50	709	0	0	0	0	0
26	600.50	709	0	0	0	0	0
27	600.50	709	0	0	0	0	0
28	600.50	709	0	0	0	0	0
29	600.50	709	0	0	0	0	0
30	600.50	709	0	0	0	0	0
31	600.50	709	0	0	0	0	0
Total			0	0	0	0	0
Mean cfs			---	0	0	0	---
Acre-feet			0	0	0	0	0

Table 19. Governor Edmund G. Brown California Aqueduct

San Luis Field Division, Monthly Deliveries

(In acre-feet)

May 2009

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		Mile			USBR	Transfer	DWR Recreation	USBR Recreation		
	No.	Structure									
2B	12	Check No. 12	66.71		43,359						
3A		San Luis Reservoir		Department of Parks and Recreation	0	13,449	1,401	0	0		
				San Felipe Division Santa Clara Water District	13,449						
				Casa de Fruta Santa Clara Water District	0						
				San Felipe Division San Benito Water District	1,401						
				Reach 3A Subtotal:	14,850						
3	13	O'Neill Forebay	70.85	Department of Parks and Recreation	2	14,850	0	0	0		
				Cattle Program	0						
				Department of Fish & Game	100						
		Thru	70.91	San Luis Water District	763	763	0	55	45		
			85.08	(Floodwater Inflow)	0						
				Reach 3 Subtotal:	865						
		Dos Amigos Pumping Plant	86.73		197,168						
4	14		89.03	San Luis Water District	8,104	8,104	0	0	0		
			Thru 94.06								
			89.66	Pacheco Water District	1,953		1,953	0	0		
			Thru 89.67								
			89.68	Panoche Water District	48		48	0	0		
			89.70	City of Dos Palos	141						
			Check No. 14	95.06			141	0	0		
			98.15	San Luis Water District	1,399						
			Thru 104.20				1,399	0	0		
			96.15	Panoche Water District	3,013						
4	15		102.64	(Floodwater Inflow)	0	3,013	0	0	0		
			102.64	Broadview Water District	0						
			105.22	Westlands Water District	6,154		6,154	0	0		
			Thru 108.64								
			Check No. 15	108.50							
					Reach 4 Subtotal:	20,812	20,812	0	0		
					San Felipe Division Total:	14,850					
					Pacheco Water District Total:	1,953	1,953	0	0		
					Broadview Water District Total:	0					
					City of Dos Palos Total:	141	141	0	0		
					SLWD Reach 4 Subtotal:	9,503					
					Panoche Water District Total:	3,061	3,061	0	0		
						SLWD Total:	10,266	10,266	0		
						Westlands WD Reach 4 Subtotal:	6,154				

Table 19. Governor Edmund G. Brown California Aqueduct

San Luis Field Division, Monthly Deliveries (Continued)

(In acre-feet)

May 2009

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries							
		Beginning and Ending				USBR	Transfer	DWR Recreation	USBR Recreation				
		No.	Structure	Mile									
5	16			(Reverse flow, Kings River)	0	9,671	10	9					
				110.52	Westlands Water District	9,671							
				Thru	Dept. of Fish and Game @ Lat. 4L	0							
				122.05	Dept. of Fish and Game @ Lat. 6L	0							
					Dept. of Fish and Game @ Lat. 7L	19							
		Check No. 16	122.07										
	17		124.18	Westlands Water District	5,782	5,362	1/ 420	10	9				
			Thru										
		132.74											
	Check No. 17	132.95											
	18		133.81	Westlands Water District	7,528	7,528	10	9					
			Thru										
			142.61										
		Pleasant Valley Pumping Plant	143.16										
			143.16										
		Check No. 18	143.23										
				Reach 5 Subtotal:	30,238	29,799	420	10	9				
6	19			GWF Energy	0	2	10,919	2/ 1,500					
				City of Huron	2								
				145.26	SWP Construction @ Lat. 24R	0							
				Thru	Kings County to Lemoore NAS Through WWD	0							
				151.19	Kings County through WWD 30L	0							
					Westlands Water District	12,419							
				Check No. 19	155.64								
						Reach 6 Subtotal:	12,421						
						10,921	1,500	0	0				
7	20		156.34	City of Huron	106	106	3/ 500	0					
			156.40	SWP Construction @ Lat. 24R	0								
			Thru	Kings County through WWD 31L, 32L, 33L, 34L, 35L, 36L	0								
			163.69	Westlands Water District	5,838								
		Check No. 20	164.69										
	21		164.79	City of Avenal	232	232	2,658	0					
			167.04	Westlands Water District	2,658								
			Thru										
			171.67										
		Check No. 21	172.40		129,692								
				Reach 7 Total:	8,834	8,334	500	0	0				
				SWP Construction Total:	0	0	0	0	0				
				Westlands WD Total:	56,776	54,356	2,420	0	0				
				City of Coalinga Total:	512	512	0	0	0				
				City of Huron Total:	108	108	0	0	0				
				Kings County to Lemoore NAS Through WWD	0	0	0	0	0				
				City of Avenal Total:	232	232	0	0	0				
				Total San Luis Field Division Deliveries:	88,020	85,479	2,420	66	55				

1/ Same land owner transfer (Brooks Farms) from Empire Westside ID.

2/ Same land owner transfer (Hansen/Newton) from Tulare Lake Basin WSD.

3/ Same land owner transfer (Westlake Farms) from Tulare Lake Basin WSD

Table 20. Consolidated State-Federal San Luis Canal 1/

Daily Operations

May 2009

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Date	Storage In Canal (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)
			Non-Project	Dos Amigos Pumping Plant	San Luis Water District Pools 14 & 15 2/	Panoche Water District Pools 14 & 15	Westlands Water District Pools 15 thru 21 3/	Flow Past Check 21	
Apr 30	27,854								
1	27,997	143	0	2,327	171	38	811	1,230	-5
2	27,844	-153	0	2,342	171	38	811	1,550	151
3	28,231	387	0	3,163	171	38	811	2,432	484
4	28,372	141	0	2,386	171	48	811	1,555	270
5	27,153	-1,219	0	2,650	171	48	811	2,432	197
6	27,681	528	0	3,369	171	48	811	2,049	-24
7	28,173	492	0	3,338	171	48	811	2,183	123
8	27,936	-237	0	3,190	171	57	811	2,172	-99
9	27,375	-561	0	3,018	171	57	811	2,258	-4
10	27,834	459	0	4,559	171	57	811	3,522	233
11	27,954	120	0	1,712	171	57	811	852	240
12	27,493	-461	0	1,909	171	57	811	1,125	23
13	27,156	-337	0	2,361	171	57	811	1,407	-85
14	27,140	-16	0	3,482	171	57	905	2,468	111
15	27,344	204	0	2,942	171	51	905	1,552	-160
16	27,527	183	0	2,958	171	51	905	1,754	16
17	28,107	580	0	2,958	171	51	915	1,810	281
18	28,271	164	0	2,629	171	51	915	1,629	220
19	27,277	-994	0	2,810	171	51	915	2,311	136
20	26,967	-310	0	3,900	171	51	910	2,725	-199
21	27,981	1,014	0	3,804	171	51	1,100	1,724	-247
22	27,592	-389	0	3,598	180	49	1,100	2,294	-171
23	27,945	353	0	4,054	227	48	1,100	2,516	15
24	28,792	847	0	3,668	227	48	1,100	2,087	221
25	28,827	35	0	3,047	227	48	1,100	1,862	208
26	28,023	-804	0	3,267	227	48	1,100	2,395	98
27	27,678	-345	0	3,597	227	48	1,110	2,318	-68
28	27,835	157	0	3,796	231	48	1,110	2,109	-218
29	28,270	435	0	4,576	236	48	1,110	2,938	-25
30	28,721	451	0	4,072	237	48	1,110	2,745	296
31	27,925	-796	0	3,922	237	48	1,110	3,382	454
Total		71	0	99,404	5,847	1,543	29,063	65,385	2,472
Mean cfs		---	0	3,207	189	50	938	2,109	80
Acre-feet		71	0	197,168	11,597	3,061	57,647	129,692	4,900

1/ San Luis Canal includes Pools 14 through 21 of the California Aqueduct.

2/ Includes 1,953 AF to Pacheco W.D., 141 AF to the City of Dos Palos and 9,503 AF to San Luis Water District.

3/ Includes 106 AF to the City of Huron, 232 AF to the City of Avenal, 512 AF to the City of Coalinga, 2 AF to City of Huron P&R @ 22R, 0 AF to Lemoore N.A.S. @ 29L, 0 AF to GWF @ 30L, 0 AF to Kings County @ 30L, 0 AF to Broadview WD @ 4L, 0 AF to DFG @ 4L, 0 AF to Pilibos Wildlife @ 4L, 0 AF to Mendota Water Fowl Habitat Area @ 6L, 0 AF to DWR Water Truck @ 22R, 19 AF to DFG @ 7L, 0 AF Non-Project Water, 50,050 AF to Westlands Water District and 6,726 AF to Pleasant Valley Pumping Plant.

Table 21. San Joaquin Field Division Plant Data

(in acre-feet)

May 2009

23

Date	Coastal Aqueduct					California Aqueduct			
	Las Perillas Pumping Plant	Badger Hill Pumping Plant	Devil's Den Pumping Plant	Bluestone Pumping Plant	Polonio Pass Pumping Plant	Buena Vista Pumping Plant	Teerink Pumping Plant	Chrisman Pumping Plant	Edmonston Pumping Plant
1	274	257	39	35	40	2,359	2,096	1,852	1,740
2	385	394	70	65	71	3,205	2,933	2,787	2,783
3	247	238	74	67	76	4,618	4,640	4,551	4,528
4	263	226	28	25	29	3,668	3,732	3,535	3,567
5	357	360	61	57	64	4,120	2,276	2,303	3,508
6	375	358	69	60	67	4,020	3,738	3,403	3,285
7	553	493	68	62	69	3,689	3,454	3,217	3,073
8	549	475	76	71	77	3,697	3,466	3,174	3,167
9	546	442	75	70	76	3,697	3,329	3,166	3,137
10	548	428	95	85	97	6,009	6,002	5,876	5,960
11	358	350	47	43	48	2,304	2,260	1,999	1,857
12	545	528	68	65	69	1,838	1,377	1,296	1,263
13	563	535	77	69	77	2,395	1,875	1,658	1,620
14	584	555	72	66	71	3,648	3,736	3,325	3,188
15	476	456	76	71	77	2,158	1,701	1,401	1,350
16	307	320	74	69	75	2,694	2,266	2,028	2,013
17	284	289	93	87	93	3,616	3,513	3,141	3,035
18	321	302	52	46	52	3,347	3,170	2,952	2,879
19	573	602	98	90	100	3,118	2,762	2,515	2,490
20	542	524	88	80	91	3,779	3,432	3,114	3,116
21	553	465	74	68	74	2,871	2,376	2,124	2,051
22	517	487	71	64	74	3,892	3,557	3,243	3,228
23	411	421	77	70	78	3,800	3,360	2,967	2,992
24	424	425	81	72	84	2,966	2,922	2,712	2,791
25	462	464	57	53	61	3,273	3,249	2,957	2,890
26	432	419	83	75	84	3,584	3,042	2,730	2,683
27	542	501	67	61	66	3,438	3,301	2,766	2,710
28	508	487	75	69	79	3,392	3,090	2,696	2,599
29	477	416	88	80	87	4,229	3,880	3,205	3,164
30	465	387	55	50	56	4,153	3,583	3,150	3,142
31	537	520	93	84	95	4,589	3,042	4,235	4,249
Total	13,977	13,123	2,221	2,029	2,257	108,165	97,160	90,077	90,057

Table 22. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries

(In acre-feet)

May 2009

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries							
	Beginning and Ending					Table A	USBR	Recovery	Transfer	Carryover Article 56C			
	No.	Structure	Mile										
7	21	Check No. 21	172.40		129,692								
8C	22			Empire West Side ID TL - A	0	1,668	592	1/ 388	1/ 191	1/ 1,680			
				172.66 County of Kings TL - A	0								
				Tulare Lake Basin WSD TL-A	1,668								
				175.18 Dudley Ridge WD - 1	0								
				177.54 Dudley Ridge WD - 1B	388								
				180.64 Tulare Lake Basin WSD - C	0								
				180.65 Dudley Ridge WD - 1A	191								
				182.99 Dudley Ridge WD - 2	1,680								
				183.00 Tulare Lake Basin WSD TL - B	593								
				County of Kings TL-B	0								
8D				184.00 Dudley Ridge WD - Paramount	0								
				184.63 Coastal Branch	13,977								
31A	8D			184.78 Dudley Ridge WD - 3	1,689								
				Dudley Ridge Reach 8D Total:	3,948	0	0	3,948	0	0			
9	23			Tulare Lake Basin WSD Total:	2,261	2,260	0	0	0	1			
				Check No. 22	184.82								
				189.69 Kern County Water Agency Lost Hills Water Dist. - 1	5,735			2/ 735	3/ 5,000				
				191.18 Kern County Water Agency Lost Hills Water Dist. - 2	1,045			2/ 545	3/ 500				
				194.22 Kern County Water Agency Lost Hills Water Dist. - 3	316			2/ 316					
				196.40 Kern County Water Agency Berrenda Mesa - 2	435			2/ 435					
				196.75 Kern County Water Agency Lost Hills Water Dist. - 4	1,050			2/ 1,050					
10A	24			KCWA Reach 9 Subtotal:	8,581	0	0	3,081	5,500	0			
				Check No. 23	197.05								
10A	25			201.24 Kern County Water Agency Lost Hills Water Dist. - 7	1,090			2/ 90	3/ 1,000				
				202.05 Kern County Water Agency Lost Hills Water Dist. - 5	1,048			2/ 48	3/ 1,000				
				204.69 Kern County Water Agency Lost Hills Water Dist. - 6	0			2/ 5					
				205.26 Kern County Water Agency Lost Hills Water Dist. - 8	5								
				Check No. 24	207.94								
				209.71 Kern County Water Agency Belridge Water Storage Dist. - 1A	2,716			2/ 2,716					
				209.78 Kern National Wildlife Refuge USBR BV-1B	315	315							
				Kern County Water Agency Buena Vista WSD 1B	0								
				209.80 KCWA Semitropic WSD	302			2/ 302					
				KCWA Semitropic WSD Penstocks	0								
				USBR Total:	315	0	315	0	0	0			
				KCWA Reach 10A Subtotal:	5,161	0	0	3,161	2,000	0			

1/ Kern Water Bank Recovery.

2/ Pump Recovery.

3/ Table A transfer from Dudley Ridge WD to Kern County WA.

Table 22. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

May 2009

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries				
	Beginning and Ending		No.	Structure	Mile	Table A	USBR	Recovery	Transfer	Carryover Article 56C
	No.	Structure								
11B	25		210.75	Kern County Water Agency Belridge - 2	0			2/ 746		
			214.11	Kern County Water Agency Belridge - 3	746					
			216.62	Kern County Water Agency Belridge - 4	0					
			217.13	Kern County Water Agency Belridge - 5A-C	13,215					
				Kern County Water Agency Belridge - 5D	109					
		Check No. 25	217.79					2/ 109		
				KCWA Reach 11B Subtotal:	14,070	0	0			
12D	26		219.58	Kern County Water Agency Belridge - 6	0			2/ 309		
				Kern County Water Agency West Kern - 3	309					
			Check No. 26	224.92						
12E	27		230.37	Kern County Water Agency Buena Vista - 6	0					
			Check No. 27	231.73						
	28		235.75	Kern County Water Agency Buena Vista - 2	0					
				Kern County WA CVC	0					
				DRWD CVC	0					
				Tulare Co.	0					
			238.04	Lower Tule River	0					
				Fresno Co.	0					
				Pixley ID	0					
				Hacienda DWR Wells	0					
		Check No. 28	238.11							
				1/ Arvin Edison Total:	0	0	0	0	0	0
				Reach 12E Subtotal:	0	0	0	0	0	0
13B	29		238.19	Kern Water Bank Inflow	0			2/ 1,531		
				Kern Water Bank Outflow	0					
			241.02	Kern River Intertie (inflow)	0					
			242.85	KCWA Buena Vista WSD - 7	0					
				KCWA Buena Vista WSD - 5	1,531					
			243.09	Kern County Water Agency Buena Vista - 3	0					
			Check No. 29	244.54						
	30		249.85	Kern County Water Agency Buena Vista - 4	0					
			Buena Vista Pumping Plant	250.99		108,165				
				KCWA Reach 13B Subtotal:	1,531	0	0	1,531	0	0
14A	31		254.47	Kern County Water Agency West Kern - 2	0			2/ 443		
			256.11	Kern County Water Agency Wheeler Ridge-Maricopa - 2	443					

1/ Arvin Edison Contractors include Rag Gulch WD, Kern-Tulare WD, Fresno County, Hills Valley ID, Tri Valley WD, Tulare County, Lower Tule River ID, and Pixley ID.

2/ Pump Recovery.

Table 22. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

May 2009

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries								
	Beginning and Ending		No.			Table A	USBR	Recovery	Transfer	Carryover Article 56C				
	No.	Structure	Mile											
14A	31	Check No. 31	256.14											
	32		258.61		Kern County Water Agency Wheeler Ridge-Maricopa - 3									
			260.44		Kern County Water Agency Wheeler Ridge-Maricopa - 4									
		Check No. 32	261.72											
					KCWA Reach 14A Subtotal:	3,160	0	0	3,160	0	0			
14B	33		264.42		Kern County Water Agency Wheeler Ridge-Maricopa - 5	3,882								
			266.91		Kern County Water Agency Wheeler Ridge-Maricopa - 6									
		Check No. 33	267.36											
	34		270.24		Kern County Water Agency Wheeler Ridge-Maricopa - 7	3,486								
			271.27											
					Reach 14B Total:	8,035	2,596	0	5,439	0	0			
14C	35		272.39		Kern County Water Agency Wheeler Ridge-Maricopa - 8	2,649								
			276.09		Kern County Water Agency Wheeler Ridge-Maricopa - 9									
			277.30		Kern County Water Agency Arvin-Edison WSD									
					Reach 14C Total:	4,164	4,164	0	0	0	0			
		Teerink Pumping Plant	278.13			97,160								
15A	36		279.02		Kern County Water Agency Wheeler Ridge-Maricopa - 9A	604								
			280.06		Kern County Water Agency Wheeler Ridge-Maricopa - 10									
					Reach 15A Total:	3,716	3,716	0	0	0	0			
		Chrismar Pumping Plant	280.36			90,077								
16A	37		282.06		Kern County Water Agency Wheeler Ridge-Maricopa - 11	0								
			283.95											
	38		285.01		Kern County Water Agency Wheeler Ridge-Maricopa - 12	37								
			286.39		Kern County Water Agency Wheeler Ridge-Maricopa - 13A									
			287.06		Kern County Water Agency Wheeler Ridge-Maricopa - 13									
	39		287.09											
			287.62		Kern County Water Agency Wheeler Ridge-Maricopa - 13B									
	40		290.21											
			291.26		Kern County Water Agency Wheeler Ridge-Maricopa - 14									
			293.07		Kern County Water Agency Wheeler Ridge-Maricopa - 15									
					Kern County Water Agency Tehachapi Cummings CWD	742	742	0	0	0	0			
		Edmonston Pumping Plant	293.45		KCWA Reach 16A Subtotal:	2,342	2,342	0	0	0	0			
17E						90,057								

1/ Pump Recovery.

Table 23. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Coastal Branch)

(In acre-feet)

May 2009

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A	USBR	Recovery	Transfer	Carryover Article 56C		
	No.	Structure	Mile									
31A	C-1	Coastal Branch Control	0.02		13,977	633	10,684	0	0	0		
		Las Perillas Pumping Plant	1.16		13,977							
	C-2		3.79	Green Valley Water District	0							
		Badger Hill Pumping Plant	4.27		13,123							
	C-3	Coastal Check No. 3	7.21									
	C-4		9.34	Castaic Lake WA (Devil's Den WD #1)	0							
		Coastal Check No. 4	9.34									
	C-5	Coastal Check No. 5	12.20									
	C-6		13.30	Kern County Water Agency Berrenda Mesa - 3	633							
			14.83	Kern County Water Agency Berrenda Mesa - 1	10,684							
				Kern County Water Agency Berrenda Mesa - PO	0							
		Devil's Den Pumping Plant	14.86		2,221							
				KCWA Reach 31A Subtotal:	11,317	11,317	0	0	0	0		
				KCWA Total:	62,386	24,135	0	30,751	7,500	0		
33A	C-7	Bluestone Pumping Plant	19.05		2,029	331	1/ 1,350	573	573	573		
	C-8	Polonio Pass Pumping Plant	26.54		2,257							
	C-9	Tank Site 1	27.81	(CCWA) Polonio Pass Treatment Plant	0							
	C-10	Shandon T.O.	38.23	Santa Barbara County (CCWA)	1,923							
		Tank Site 2	58.63	Central Coast:	0							
34	C-11	Chorro Valley T.O.	69.31	San Luis Obispo County (CCWA)	331	331	1,350	573	573	573		
		Energy Dissipater	78.12									
	Lopez T.O.		85.86	SLOCFC & WCD	0							
35	C-12			CCWA Total:	2,254	331	0	0	1,350	573		
		Guadalupe T.O.	102.70	SBCFC & WCD	0							
		Santa Maria T.O.	107.43	SBCFC & WCD	0							
	So. Cal. Water T.O.	109.20		SBCFC & WCD	0							
38				SBCFC & WCD Total:	0	0	0	0	0	0		
	Tank Site 5	115.42										

1/ Transfer of San Luis Obispo's Table A water to Santa Barbara.

Table 24. Southern Field Division Plant Data

(in acre-feet)

May 2009

Date	West Branch						East Branch								East Branch Extension		
	Oso Pumping Plant	Warne Powerplant			Castaic Powerplant		Alamo Powerplant			Pearblossom Pumping Plant	Mojave Siphon Powerplant			Devil Canyon Powerplant Generation	Green Spot	Crafton Hills	Cherry Valley
		Generation	Leakage	Gorman Crk. Improvement Channel	Generation 1/	Pumpback 1/	Generation	Bypass Through Plant	Tehachapi Afterbay Bypass		Generation	Leakage	Bypass Flume				
1	1,172	1,360	0	0	2,484	0	554	0	0	403	439	0	0	951	46	29	10
2	1,969	1,516	0	0	952	0	892	0	0	658	429	0	0	792	10	0	10
3	2,559	1,528	0	0	855	0	1,857	0	0	1,649	1,442	0	0	581	36	23	9
4	2,822	1,524	0	900	3,724	0	876	0	0	600	639	0	0	845	71	48	9
5	2,713	1,554	0	1,388	3,664	0	888	0	0	494	537	0	0	873	71	51	27
6	2,662	1,569	0	1,386	4,315	0	898	0	0	576	528	0	0	996	72	51	26
7	2,552	1,571	0	1,386	3,247	0	578	0	0	428	359	0	0	576	66	44	14
8	2,446	1,571	0	926	2,371	0	709	0	0	544	485	0	0	717	46	36	13
9	1,751	1,571	0	0	467	0	1,321	0	0	1,515	1,318	0	0	484	7	0	12
10	2,877	784	0	0	691	0	2,673	0	0	2,595	2,831	0	0	617	30	22	10
11	1,118	1,565	0	0	1,452	704	954	0	0	509	523	0	0	673	59	47	12
12	797	720	0	186	3,495	1,331	612	0	311	369	325	0	0	585	59	50	14
13	1,270	1,525	0	217	3,708	1,472	612	0	331	138	147	0	50	706	59	50	14
14	2,610	1,524	0	0	3,786	1,253	255	0	0	205	192	0	0	516	52	43	17
15	1,116	1,524	0	0	2,867	1,503	484	0	0	506	440	0	0	550	50	43	8
16	1,275	1,526	0	0	2,520	1,578	288	0	0	184	0	19	0	558	16	12	14
17	2,184	1,528	0	0	1,183	3,047	879	0	0	555	567	0	0	684	30	25	12
18	2,233	1,526	0	744	4,755	1,721	740	0	0	505	819	0	0	584	57	51	12
19	1,917	1,531	0	721	3,481	1,074	772	0	0	381	28	0	0	712	54	52	25
20	2,031	1,530	0	0	3,624	697	728	0	0	307	316	0	0	568	52	55	25
21	1,111	1,527	0	0	3,214	931	935	0	0	552	321	0	0	674	54	52	14
22	2,112	1,526	0	0	4,226	1,285	1,075	0	0	492	469	0	0	568	54	52	16
23	2,012	1,525	0	0	122	1,753	914	0	0	862	777	0	0	562	27	25	17
24	1,321	1,523	0	0	864	2,807	1,753	0	0	1,207	1,026	0	0	614	27	25	8
25	1,697	1,523	0	0	1,226	0	1,077	0	0	1,083	1,198	0	0	743	28	26	12
26	1,590	1,525	0	0	4,204	0	975	0	0	617	684	0	0	524	28	54	12
27	1,691	1,525	0	441	3,913	1,122	783	0	0	677	560	0	0	593	55	51	15
28	1,697	1,530	0	694	3,440	2	985	0	0	672	684	0	0	548	51	48	15
29	2,229	1,529	0	694	3,198	1,137	948	0	0	574	618	0	0	561	55	51	15
30	2,283	1,533	0	694	1,463	0	964	0	0	631	672	0	0	515	55	25	15
31	3,197	1,528	0	694	87	1,717	982	0	0	688	675	0	0	481	26	25	13
Total	61,014	45,841	0	11,071	79,598	25,134	28,961	0	642	21,176	20,048	19	50	19,951	1,403	1,166	445

1/ Values supplied by LADWP, not verified by DWR.

Table 25. Pyramid Lake

Daily Operation

Capacity: 171,200 ac-ft

(in acre-feet except as noted)

May 2009

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow			Computed Losses (-) And Gains (+)
				Project		Natural	Project		To Piru Creek	
				Castaic Powerplant Pumpback 1/	Warne Power-plant	Gorman Creek Improv. Channel	Stream Flow	Castaic Powerplant Generation 1/	Recrea-tion Deliveries	
Apr 30	2576.32	167,741								
1	2574.88	165,904	-1,837	0	1,360	0	30	2,484	0	42 0 -701
2	2575.41	166,579	675	0	1,516	0	31	952	0	42 0 122
3	2576.26	167,664	1,085	0	1,528	0	30	855	0	41 0 423
4	2574.98	166,031	-1,633	0	1,524	900	30	3,724	0	40 0 -323
5	2574.49	165,409	-622	0	1,554	1,388	30	3,664	0	40 0 110
6	2573.40	164,030	-1,379	0	1,569	1,386	28	4,315	0	40 0 -7
7	2573.02	163,551	-479	0	1,571	1,386	28	3,247	0	38 0 -179
8	2572.96	163,476	-75	0	1,571	926	27	2,371	0	37 0 -191
9	2573.90	164,662	1,186	0	1,571	0	27	467	1	36 0 92
10	2574.46	165,371	709	0	784	0	26	691	0	33 0 623
11	2575.14	166,235	864	704	1,565	0	26	1,452	0	33 0 54
12	2574.09	164,902	-1,333	1,331	720	186	25	3,495	0	31 0 -69
13	2574.29	165,154	252	1,472	1,525	217	25	3,708	0	31 0 752
14	2573.09	163,629	-1,525	1,253	1,524	0	24	3,786	0	31 0 -509
15	2572.36	162,722	-907	1,503	1,524	0	24	2,867	0	31 0 -1,060
16	2572.86	163,350	628	1,578	1,526	0	24	2,520	0	31 0 51
17	2575.81	167,089	3,739	3,047	1,528	0	23	1,183	0	31 0 355
18	2574.60	165,549	-1,540	1,721	1,526	744	22	4,755	0	31 0 -767
19	2574.64	165,599	50	1,074	1,531	721	22	3,481	1	31 0 215
20	2573.23	163,816	-1,783	697	1,530	0	21	3,624	0	31 0 -376
21	2572.88	163,375	-441	931	1,527	0	21	3,214	0	31 0 325
22	2571.43	161,558	-1,817	1,285	1,526	0	20	4,226	0	31 0 -391
23	2574.35	165,232	3,674	1,753	1,525	0	20	122	0	30 0 528
24	2577.02	168,639	3,407	2,807	1,523	0	20	864	0	30 0 -49
25	2577.29	168,986	347	0	1,523	0	20	1,226	0	30 0 60
26	2574.88	165,904	-3,082	0	1,525	0	19	4,204	0	29 0 -393
27	2574.43	165,333	-571	1,122	1,525	441	18	3,913	0	27 0 263
28	2573.40	164,030	-1,303	2	1,530	694	17	3,440	1	25 0 -80
29	2573.41	164,043	13	1,137	1,529	694	18	3,198	0	23 0 -144
30	2574.08	164,890	847	0	1,533	694	17	1,463	0	22 0 88
31	2577.13	168,780	3,890	1,717	1,528	694	17	87	0	22 0 43
Total				1,039	25,134	45,841	11,071	730	79,598	3 1,001 0 -1,135

1/ Values supplied by LADWP, not verified by DWR.

Table 26. Elderberry Forebay

Daily Operation

(in acre-feet except as noted)

Capacity: 32,476 ac-ft

May 2009

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow			Computed Losses (-) And Gains (+)	
				Castaic Powerplant Generation 1/	Natural	Castaic Powerplant Pumpback 1/	To Castaic Lake			
							Natural	Project 1/		
Apr 30	1507.43	18,209								
1	1507.56	18,257	48	2,484	1	0	1	2,433	-3	
2	1510.49	19,373	1,116	952	1	0	1	0	164	
3	1512.40	20,119	746	855	1	0	1	0	-109	
4	1510.30	19,300	-819	3,724	1	0	1	4,539	-4	
5	1508.50	18,612	-688	3,664	1	0	1	4,298	-54	
6	1513.07	20,385	1,773	4,315	1	0	1	2,595	53	
7	1509.52	19,000	-1,385	3,247	1	0	1	4,632	0	
8	1504.74	17,215	-1,785	2,371	0	0	0	4,157	1	
9	1505.65	17,548	333	467	0	0	0	0	-134	
10	1507.84	18,362	814	691	0	0	0	0	123	
11	1509.76	19,092	730	1,452	0	704	0	0	-18	
12	1515.07	21,189	2,097	3,495	0	1,331	0	0	-67	
13	1515.00	21,161	-28	3,708	0	1,472	0	2,264	0	
14	1514.14	20,813	-348	3,786	0	1,253	0	2,882	1	
15	1514.93	21,132	319	2,867	0	1,503	0	1,043	-2	
16	1516.87	21,926	794	2,520	0	1,578	0	0	-148	
17	1512.15	20,021	-1,905	1,183	0	3,047	0	0	-41	
18	1520.06	23,266	3,245	4,755	0	1,721	0	0	211	
19	1513.67	20,624	-2,642	3,481	0	1,074	0	5,036	-13	
20	1520.55	23,475	2,851	3,624	0	697	0	0	-76	
21	1517.49	22,183	-1,292	3,214	0	931	0	3,576	1	
22	1524.46	25,176	2,993	4,226	0	1,285	0	0	52	
23	1520.82	23,591	-1,585	122	0	1,753	0	0	46	
24	1515.70	21,445	-2,146	864	0	2,807	0	0	-203	
25	1513.91	20,720	-725	1,226	0	0	0	1,952	1	
26	1514.16	20,821	101	4,204	0	0	0	4,103	0	
27	1511.76	19,868	-953	3,913	0	1,122	0	3,743	-1	
28	1511.09	19,606	-262	3,440	0	2	0	3,699	-1	
29	1507.11	18,089	-1,517	3,198	0	1,137	0	3,578	0	
30	1510.80	19,493	1,404	1,463	0	0	0	0	-59	
31	1506.80	17,973	-1,520	87	0	1,717	0	0	110	
Total				-236	79,598	7	25,134	7	54,530	
									-170	

1/ Values supplied by LADWP, not verified by DWR.

Table 27. Castaic Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 323,699 ac-ft

May 2009

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow		Computed Losses (-) And Gains (+)	
				From Elderberry Forebay 1/		Natural	Deliveries	Released To Castaic Lagoon		
				Natural	Project					
Apr 30	1482.17	255,107								
1	1482.54	255,830	723	2	2,433	3	1,781	0	66	
2	1481.70	254,191	-1,639	2	0	4	1,655	0	10	
3	1480.90	252,637	-1,554	2	0	4	1,621	0	61	
4	1482.45	255,654	3,017	1	4,539	3	1,757	0	231	
5	1483.66	258,023	2,369	0	4,298	3	1,810	0	-122	
6	1484.02	258,730	707	0	2,595	2	1,797	0	-93	
7	1485.50	261,648	2,918	0	4,632	2	1,925	0	209	
8	1486.66	263,948	2,300	0	4,157	2	1,846	0	-13	
9	1485.70	262,044	-1,904	0	0	2	1,848	0	-58	
10	1484.82	260,305	-1,739	0	0	2	1,768	10	37	
11	1483.93	258,553	-1,752	0	0	2	1,789	10	45	
12	1482.98	256,690	-1,863	0	0	1	1,826	10	-28	
13	1483.18	257,082	392	0	2,264	1	1,891	10	28	
14	1483.65	258,003	921	0	2,882	1	1,818	10	-134	
15	1483.30	257,317	-686	0	1,043	1	1,813	10	93	
16	1482.38	255,517	-1,800	0	0	1	1,828	10	37	
17	1481.46	253,724	-1,793	0	0	1	1,804	10	20	
18	1480.54	251,939	-1,785	0	0	1	1,770	10	-6	
19	1482.22	255,205	3,266	0	5,036	1	1,830	10	69	
20	1481.30	253,413	-1,792	0	0	1	1,869	10	86	
21	1482.22	255,205	1,792	0	3,576	1	1,768	10	-7	
22	1481.38	253,569	-1,636	0	0	1	1,682	10	55	
23	1480.50	251,861	-1,708	0	0	0	1,677	10	-21	
24	1479.70	250,314	-1,547	0	0	0	1,566	10	29	
25	1479.85	250,604	290	0	1,952	0	1,576	10	-76	
26	1481.13	253,083	2,479	0	4,103	0	1,661	10	47	
27	1482.21	255,185	2,102	0	3,743	0	1,601	10	-30	
28	1483.37	257,454	2,269	0	3,699	0	1,537	10	117	
29	1484.26	259,202	1,748	0	3,578	0	1,614	10	-206	
30	1483.50	257,709	-1,493	0	0	0	1,500	10	17	
31	1482.74	256,221	-1,488	0	0	0	1,497	10	19	
Total				1,114	7	54,530	40	53,725	220	482

1/ Values supplied by LADWP, not verified by DWR.

Table 28. Governor Edmund G. Brown California Aqueduct
 Southern Field Division, Monthly Deliveries (West Branch)

(In acre-feet)

May 2009

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		Structure			Table A	Rec.	Recovery	Flexible Withdrawal	Article 56C	Other	
	No.	Structure	Mile									
29A	42	Oso Pumping Plant	1.49		61,014							
29F	W2	Quail Lake	5.02	Antelope Valley-East Kern Water Agency	Re-moved							
		Quail Lake Embankment	7.82	Antelope Valley-East Kern Water Agency	Stub							
29G		Warne Power Plant	14.07	(11,071 AF of flow through Gorman Creek Imp. Channel)	45,841							
29H	W3	Pyramid Lake		USFS		3	3					
				Pyramid Recreation (T300)	3							
				United WA (T300)	0							
		Pyramid Dam	17.10	California State Park Piru Fish (T300)	0							
29J	W4	Castaic Power Plant	25.82	(25,134 AF pumpback) 2/	79,598							
		Elderberry Forebay										
		Forebay Dam	28.12									
30 1/	W5	Castaic Lake		California State Park		30,829	11	3/ 4,021	14,893	1,644	1,202	
				Castaic Lake Recreation (T301)	11							
		Castaic Dam	31.47									
		Castaic Lake Outlet	31.55	MWDSC 78" & 132" (T302)	49,743							
				Castaic Lake WA 18", 24" & 54" (T303)	1,644							
				Castaic Lake WA Rio Vista T.P. (T304)	2,327							
				MWD-Ventura Co. WPD (T302)	0							
				Releases to Lagoon	220							
				Reach 30 Subtotal:	53,725							
	W6	Castaic Lagoon		California State Park Recreation to Lagoon (T353)	0		11	4,046	14,893	2,846	1,100	
		Castaic Lagoon Outlet	31.87		186							

1/ Reach 30 actually terminates at mile 31.50. It is shown here as including the outlet works at mile 31.55.

All deliveries from the outlet works and from the Lagoon are billed to Reach 30.

2/ Value Supplied by LADWP, not verified by DWR

3/ Includes 1,847 AF of Kern-Delta Recovery and 2,174 Semitropic Bank Recovery.

4/ Semitropic Bank Recovery.

5/ Conveyance of non-project water - Article 55.

Table 29. Silverwood Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 74,970 ac-ft

May 2009

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow					Computed Losses (-) And Gains (+)	Las Flores Ranch Exchange 1/		
							Project			Del. To Mojave W.A.	Natural To Mojave River				
				Mojave Siphon Power-plant	Mojave Bypass Flume	Natural Stream Flow	Delivered to CLAWA	Rec.	San Bernardino Tunnel						
Apr 30	3349.94	71,530													
1	3350.75	70,884	-646	439	0	10	2	1	951	0	0	-141	17		
2	3350.42	70,572	-312	429	0	10	3	0	792	0	0	44	18		
3	3351.40	71,501	929	1,442	0	9	3	0	581	0	1	63	17		
4	3351.06	71,178	-323	639	0	9	4	0	845	0	0	-122	18		
5	3350.70	70,837	-341	537	0	9	2	1	873	0	0	-11	18		
6	3350.22	70,384	-453	528	0	8	0	0	996	0	1	8	18		
7	3349.94	70,120	-264	359	0	7	0	0	576	0	0	-54	18		
8	3349.72	69,913	-207	485	0	7	1	0	717	0	0	19	18		
9	3350.56	70,705	792	1,318	0	6	4	1	484	0	1	-42	18		
10	3352.92	72,955	2,250	2,831	0	6	5	0	617	0	0	35	17		
11	3352.72	72,762	-193	523	0	6	4	0	673	0	1	-44	18		
12	3352.38	72,436	-326	325	0	5	4	0	585	0	0	-67	18		
13	3351.82	71,901	-535	147	50	5	3	1	706	0	1	-26	18		
14	3351.46	71,558	-343	192	0	5	4	0	516	0	0	-20	18		
15	3351.32	71,425	-133	440	0	5	4	0	550	0	0	-24	18		
16	3350.78	70,913	-512	19	0	4	4	1	558	0	0	28	18		
17	3350.75	70,884	-29	567	0	4	4	0	684	0	1	89	18		
18	3350.84	70,970	86	819	0	3	5	0	584	0	0	-147	17		
19	3350.22	70,384	-586	28	0	3	3	1	712	0	0	99	18		
20	3349.83	70,016	-368	316	0	3	4	0	568	0	0	-115	17		
21	3349.46	69,669	-347	321	0	3	5	0	674	0	1	9	17		
22	3349.27	69,491	-178	469	0	3	3	1	568	0	0	-78	17		
23	3349.46	69,669	178	777	0	3	4	0	562	0	0	-36	17		
24	3349.86	70,045	376	1,026	0	2	5	0	614	0	0	-33	17		
25	3350.45	70,601	556	1,198	0	2	4	1	743	0	1	105	17		
26	3350.45	70,601	0	684	0	2	5	0	524	0	0	-157	17		
27	3350.42	70,572	-29	560	0	2	5	0	593	0	0	7	17		
28	3350.56	70,705	133	684	0	2	5	0	548	0	1	1	17		
29	3350.73	70,865	160	618	0	2	5	0	561	0	0	106	17		
30	3350.73	70,865	0	672	0	1	5	0	515	0	0	-153	17		
31	3350.92	71,045	180	675	0	1	5	0	481	0	1	-9	17		
Total				-485	20,067	50	147	114	8	19,951	0	10	-666	539	

1/ Project water delivered from Mojave Siphon in exchange for like amount of Natural Streamflow.

Table 30. Lake Perris

Daily Operation

(in acre-feet except as noted)

Capacity: 131,452 ac-ft

May 2009

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow 1/	Outflow 2/	Computed Losses (-) Gains (+) 1/
Apr 30	1555.88	61,630				
1	1556.02	61,872	242		5	
2	1555.93	61,717	-155		5	
3	1555.99	61,820	103		4	
4	1556.07	61,959	139		6	
5	1555.99	61,820	-139		3	
6	1555.96	61,768	-52		5	
7	1555.96	61,768	0		4	
8	1556.04	61,907	139		5	
9	1556.10	62,010	103		5	
10	1556.13	62,062	52		5	
11	1556.10	62,010	-52		5	
12	1556.15	62,097	87		5	
13	1556.29	62,340	243		5	
14	1556.29	62,340	0		5	
15	1556.18	62,149	-191		5	
16	1556.29	62,340	191		4	
17	1556.18	62,149	-191		5	
18	1556.21	62,201	52		5	
19	1556.15	62,097	-104		5	
20	1556.15	62,097	0		4	
21	1556.18	62,149	52		5	
22	1556.17	62,124	-25		5	
23	1556.18	62,149	25		5	
24	1556.15	62,097	-52		5	
25	1556.15	62,097	0		5	
26	1556.21	62,201	104		5	
27	1556.18	62,149	-52		5	
28	1556.29	62,340	191		5	
29	1556.21	62,201	-139		5	
30	1556.15	62,097	-104		5	
31	1556.13	62,062	-35		5	
Total		432	1,059	150	-477	

1/ Readings are not taken on a daily basis. End of month only.

2/ Includes deliveries to MWD from Reach 28J and recreation water to California State Park at Lake Perris.

Table 31. Governor Edmund G. Brown California Aqueduct

Southern Field Division, Monthly Deliveries (East Branch)

(In acre-feet)

May 2009

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		No.			Table A	Rec.	Recovery	Flexible Withdrawal	Article 56C	Other	
	No.	Structure	Mile									
17E	40	Edmonston Pumping Plant	293.45		90,057							
	41		298.65	KCWA Tej.-Cas	Stub							
17F		Check No. 41	303.41									
	42		304.99	AVEK WA-Temp for TEA construction (T389)	0							
18A	43	Check No. 42	304.99									
		Alamo Powerplant	305.73	(Includes 28,961 AF generation, 0 AF plant bypass, and 642 AF Tehachapi bypass)	29,603							
19	43		306.71	AVEK 305th Street West (T287)	0							
			308.05	AVEK 294th Street West (T267)	0							
	44	Check No. 43	309.70									
			311.84	LADWP Connection	0							
	44		313.50	AVEK 245th Street West (T269)	0							
		Check No. 44	314.81									
	45		314.93	AVEK 235th Street West (T270)	0							
			315.57	AVEK 225th Street West (T271)	0							
	46	Check No. 45	319.74									
			323.19	Antelope Valley-East Kern WA Fairmont (T272)	538							
	46			Mojave Water Agency Fairmont (T272)	123							
		Check No. 46	323.84		Reach 19 Total:							
20A	47	Check No. 47	326.77		661	0	0	0	0	661	0	
	48		326.91	Antelope Valley-East Kern WA Willow Springs (T273)	97							
			329.65	Antelope Valley-East Kern WA 120th Street West	Removed							
	49	Check No. 48	330.82									
		Check No. 49	335.93									
	50		336.73	Antelope Valley-East Kern WA Quartz Hill (T274)	2,938							
			339.68	Antelope Valley-East Kern WA Rancho Vista (T275)	77							
	50		340.92	AVEK WA-Temp (T387)	0							
		Check No. 50	341.51									
20B	51		342.06	AVEK WA-Temp (T386)	0	930						
	51	Check No. 51	342.07									
			342.95	Antelope Valley-East Kern WA 30th Street West (T414)	0							
	52	Check No. 52	343.74									
			346.98	Palmdale WD (T276) Temp.	1,592							
	53		348.14	Antelope Valley-East Kern WA Acton Treatment Plant (T277)	42							
		Check No. 53	348.17									
	54		349.52	Palmdale WD (T394)	0							
		Check No. 54	350.25									
21	55	Check No. 55	352.70									
	56	Check No. 56	354.76									
			354.97	AVEK WA-Delivered through Littlerock Creek ID (T278)	0							
	57		354.97	Palmdale WD (T276)	0							
			354.97	Palmdale WD (T391)	0							
22A	58	Check No. 57	356.93									
			357.60	AVEK 95th Street East (T279)	97							
	58		357.72	AVEK 96th Street East (T280)	0							
			359.76	AVEK East Side Treatment Plant (T281)	0							

Table 31. Governor Edmund G. Brown California Aqueduct

Southern Field Division, Monthly Deliveries (East Branch, Continued)

(In acre-feet)

May 2009

Reach No.	Operating Pool		Turnout	Total Diver-sions	Deliveries						
	Beginning and Ending				Table A	Rec.	Recovery	Flexible Withdrawal	Article 56C	Other	
	No.	Structure	Mile								
22B	58	Pearblossom Pumping Plant	360.61		21,176						
	59	Check No. 59	366.09								
	60		366.50	AVEK Big Rock Siphon (T368)	0						
		Check No. 60	373.94								
	61	Check No. 61	379.00								
	62	Check No. 62	384.26								
	63		389.20	Mojave Water Agency White Road 24" & 42" (T282)	0						
	64	Check No. 64	395.10								
	65	Check No. 65	400.32								
	66		401.10	Mojave Water Agency Morongo 24" & 42" (T284)	1,279						
23		Check No. 66	403.41								
		Mojave Siphon	405.58	Las Flores Ranch Exchange	539						
24		Mojave Siphon Powerplant	405.65		20,048						
	67	Silverwood Lake	407.65	MWA CS DAM (T288)	0						
				California State Park Silverwood (T288)	8						
			407.70	Creastline-Lake Arrowhead WA State Project Water (T289)	0						
				Non-Project Water (T289)	114						
					19,951						
	25	San Bernardino Intake Tunnel									
		Devil Canyon Powerplant	412.73		19,951						
	26A	Devil Canyon Afterbay Control Structures	412.88	MWD-Rialto (T292)	0						
				MWD-Rialto (T293)	0						
				Desert Water Agency Transfer (T293)	2,295						
				Coachella Valley WD Transfer (T293)	5,560						
				MWD EBX-1 (T290)	0						
				MWD EBX-1 (T291)	0						
				East Branch Extension	1,251						
				San Bernardino Valley MWD	1,143						
28G	28H	Santa Ana Valley Pipeline	425.46								
			433.06	MWD-SC Box Springs (T295)	7,280						
			440.05	MWD-SC Perris Bypass Pipeline (T296)	862						
28J	69	Lake Perris	442.00	MWD-SC (T297)	144						
			443.44	MWD-SC 54" & 78" (T299)	6						
				Calif. State Park							
				Lake Perris Parks & Rec. (T298)	140						
				MWD Total:	57,515	30,829	0	4,021	22,665	0	0

1/ Project water delivered from Mojave Siphon in exchange for like amount of natural stream flow.

2/ Local delivery.

3/ Includes 0 AF to San Gabriel Valley MWD, 778 AF to San Bernardino Valley MWD, and 473 AF to San Gorgonio Pass WA.

4/ Includes 368 AF to Coachella Valley and 152 AF to Desert Water Agency.

Table 32. Water Quality At Selected SWP Locations

May 2009

Constituent	Units	Thermalito Afterbay At Outlet	North Bay Aqueduct Barker Slough Pumping Plant	Delta Mendota Canal At McCabe Rd.	California Aqueduct					
					Banks Pumping Plant	O'Neill Forebay Outlet (Check 13)	Kettleman City (Check 21)	Near Hwy 119 (Check 29)	Tehachapi Afterbay (Check 41)	Devil Canyon Headworks
Alkalinity	mg/l as CaCO ₃	37	104	67	72	89	87	79	77	81
Antimony	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NR	NR
Arsenic	mg/l	<0.001	0.003	0.002	0.002	0.002	0.002	0.003	0.004	0.004
Beryllium	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	mg/l	<0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Bromide	mg/l	<0.01	0.06	0.13	0.14	0.30	0.32	0.27	0.23	0.29
Calcium	mg/l	8	17	22	20	28	27	26	29	30
Chloride	mg/l as C	1.0	22.0	48.0	47.0	101.0	100.0	81.0	70.0	76.0
Chromium	mg/l as C	<0.001	<0.001	0.0	<0.001	<0.001	<0.001	0.0	0.0	0.0
Copper	mg/l	<0.001	0	0	0	0	0	0	0	<0.001
Fluoride	mg/l	<0.1	NR	NR	NR	NR	NR	NR	NR	NR
Hardness	mg/l	36.000	108.000	104.000	99.000	144.000	146.000	118.000	114.000	116.000
Iron	mg/l	0.0	0.0	0.0	0.0	<0.005	<0.005	<0.005	<0.005	<0.005
Lead	mg/l as CaCO ₃	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/l	4.000	16.000	12.000	12.000	18.000	19.000	13.000	10.000	10.000
Manganese	mg/l	<0.005	0.050	0.008	0.014	<0.005	<0.005	<0.005	<0.005	0.064
Nitrate + Nitrite	mg/l	<0.01	0	NR	0	1	1	1	1	1
Organic Carbon, Dissolved	mg/l	NR	3.900	3.800	4.000	4.200	4.200	3.300	2.800	2.600
Organic Carbon, Total	mg/l as N	NR	4.40	3.90	4.10	4.90	4.60	3.60	3.40	2.80
Phosphate-Ortho	mg/l as P	<0.01	0.10	NR	0.10	0.07	0.07	NR	0.03	0.03
Phosphorus-Total	mg/l	0	0.30	NR	0.11	0.08	0.10	0.07	0.05	0.03
Selenium	mg/l	<0.001	<0.001	<0.001	<0.001	0.001	0.001	0.001	0.001	0.001
Sodium	mg/l	4	30	40	39	72	74	62	60	64
Specific Conductance	µS/cm	83	336	402	379	631	619	547	518	545
Sulfate	mg/l	2	29	44	37	53	52	48	52	52
Total Dissolved Solids	mg/l	49	202	221	215	346	342	303	290	299
Turbidity	NTU	4	87	10	8	3	3	2	2	2
Zinc	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

mg/l milligrams per liter

µg/l micrograms per liter

µS/cm microSiemens per centimeter

NR - Not Reported

NTU - nephelometric turbidity units

Table 33. Water Quality At Selected Delta Stations

May 2009

Date	Antioch Tides (feet above mean sea level)		Flow In CFS		Electrical Conductivity in millisiemens/cm									Cl in mg/l	
			Net Delta Outflow Index		Rio Vista	Antioch	Chippis Island	Emmaton		Jersey Point		Clifton Court	Cache Slough	Delta Mendota Canal	
	Highest High Tide	Actual High Half Tide	Mean Daily	Monthly Average				md	md	md	14dm	md	14dm	md	md
1	5.42	3.81	11,358	10,386	9,676	0.47	2.23	0.23	0.24	0.24	0.25	0.39	0.51	0.45	61
2	5.07	3.69	13,884	10,655	10,282	0.48	2.38	0.22	0.24	0.24	0.25	0.38	0.54	0.44	119
3	5.03	3.58	16,128	10,989	11,146	0.42	2.07	0.20	0.24	0.23	0.25	0.00	0.62	0.44	100
4	5.31	3.55	17,475	11,348	11,835	0.42	1.92	0.18	0.24	0.23	0.24	0.00	0.62	0.43	86
5	5.59	3.78	19,810	11,785	13,795	0.41	1.75	0.17	0.24	0.23	0.24	0.00	0.61	0.43	105
6	5.74	3.83	24,277	12,273	17,561	0.38	1.28	0.16	0.23	0.23	0.24	0.00	0.62	0.44	108
7	5.88	3.79	28,717	12,881	23,060	0.33	0.88	0.16	0.23	0.22	0.24	0.00	0.64	0.43	108
8	5.88	3.85	28,336	13,447	23,154	0.30	0.59	0.15	0.22	0.22	0.24	0.00	0.63	0.44	37
9	6.05	4.06	26,433	13,936	21,883	0.27	0.50	0.15	0.21	0.22	0.24	0.00	0.58	0.43	54
10	6.22	4.20	22,545	14,295	18,652	0.26	0.47	0.15	0.21	0.22	0.23	0.00	0.54	0.43	56
11	6.25	4.34	19,896	14,575	16,800	0.25	0.50	0.15	0.20	0.21	0.23	0.00	0.54	0.42	36
12	6.17	4.18	17,095	14,762	14,401	0.24	0.42	0.16	0.19	0.21	0.23	0.00	0.51	0.42	36
13	5.69	3.98	15,518	14,906	13,130	0.23	0.30	0.15	0.18	0.21	0.23	0.00	0.50	0.45	42
14	5.53	4.04	13,532	14,979	11,685	0.22	0.29	0.16	0.17	0.21	0.22	0.38	0.45	0.40	45
15	5.32	4.01	12,354	15,013	10,531	0.22	0.27	0.15	0.17	0.21	0.22	0.00	0.45	0.39	36
16	5.10	3.91	11,345	15,014	9,726	0.22	0.30	0.15	0.16	0.20	0.22	0.37	0.44	0.38	34
17	5.32	3.92	10,848	14,969	9,198	0.22	0.64	0.15	0.16	0.20	0.22	0.38	0.44	0.38	340
18	5.85	4.16	10,767	14,933	9,394	0.22	1.90	0.15	0.16	0.20	0.21	0.38	0.45	0.38	35
19	5.87	4.18	11,144	14,928	9,476	0.26	2.48	0.16	0.15	0.20	0.21	0.00	0.47	0.38	34
20	5.88	4.00	11,141	14,937	9,623	0.29	2.15	0.15	0.15	0.20	0.21	0.37	0.50	0.39	34
21	6.31	4.30	11,572	14,979	10,145	0.36	2.51	0.15	0.15	0.20	0.21	0.00	0.49	0.39	32
22	6.72	4.65	11,296	15,008	10,021	0.46	3.40	0.18	0.15	0.20	0.21	0.00	0.46	0.39	32
23	6.98	4.74	10,442	15,034	9,416	0.52	3.82	0.22	0.16	0.21	0.20	0.00	0.44	0.38	30
24	7.13	4.71	10,140	15,063	9,248	0.60	3.95	0.25	0.17	0.20	0.20	0.35	0.43	0.39	29
25	7.08	4.70	10,451	15,096	9,620	0.61	3.87	0.28	0.18	0.21	0.20	0.35	0.47	0.39	27
26	7.18	4.75	10,482	15,102	9,794	0.67	3.73	0.31	0.19	0.22	0.20	0.36	0.47	0.39	48
27	7.08	4.77	10,651	15,077	9,790	0.70	3.59	0.29	0.20	0.22	0.20	0.35	0.46	0.40	42
28	6.97	4.92	11,686	15,090	10,519	0.72	3.82	0.30	0.21	0.23	0.21	0.00	0.45	0.40	37
29	6.58	4.79	10,498	15,049	9,677	0.66	3.68	0.31	0.22	0.23	0.21	0.37	0.45	0.40	25
30	6.12	4.60	10,452	15,009	9,285	0.59	3.10	0.32	0.23	0.22	0.21	0.39	0.43	0.41	28
31	6.03	4.41	11,192	15,004	9,229	0.49	2.57	0.28	0.24	0.21	0.21	0.42	0.43	0.40	27

Clifton Court Cl(mg/l)=200X EC - 25

e = Estimated

f = Excess Delta conditions with fish concerns.

N.R. = No Record.

N.C. = Not computed due to insufficient data.

r = Excess delta conditions with export/inflow ratio concerns.

s = Balanced water conditions with storage withdrawals.

dm = Daily Mean

md = Mean Daily

Table 34. Pesticides, Herbicides, and Other Organic Substances Detected In the SWP

May 2009

Sampling Location	Sample Date 1/	Chemical Detected	Concentration µg/l 2/
North Bay Aqueduct At Barker Slough Pumping Plant	September 17, 2008	Atrazine	0.11
California Aqueduct At Banks Pumping Plant	June 18, 2008	Diuron Metolachlor Simazine	0.25 0.20 0.02
O'Niell Forebay Outlet Check 13	June 18, 2008	Diuron Simazine	0.27 0.03
Delta Mendota Canal At McCabe Road	June 18, 2008	Diuron Metolachlor	0.29 0.10
California Aqueduct Near Kettleman City (Check 21)	March 17, 2009	Diuron	0.68
California Aqueduct At Near Highway 119 (Check 29)	March 17, 2009	Diuron	0.56
California Aqueduct at Tehachapi Afterbay (Check 41)	March 17, 2009	Diuron	1.65
California Aqueduct At Devil Canyon Headworks	June 18, 2008	Diuron Simazine	0.40 0.10

1/ Locations are normally sampled during March, June, and September. Monthly reports will include data for the month in which samples were most recently taken.

2/ Micrograms per liter.

Table 35. Oroville and Delta Field Divisions Energy Data

(in kWh)

May 2009

Date	Oroville Thermalito Complex		Barker Slough Pumping Plant	Cordelia Pumping Plant Load	Banks Pumping Plant		South Bay Pumping Plant Load	Del Valle Pumping Plant Load
	Generation	Load			Total Load	SWP Load		
1	7,857,784	1,353	22,161	38,053	619,856	619,856	410,077	3,303
2	6,246,702	0	27,690	39,584	619,072	619,072	399,821	3,307
3	4,085,400	2,057	24,978	39,795	619,448	619,448	399,785	3,302
4	6,294,981	2,684	25,560	43,899	619,696	619,696	416,708	3,299
5	6,201,998	2,629	23,690	39,433	619,800	619,800	394,922	3,431
6	7,858,488	0	23,842	39,576	395,864	395,864	348,484	680
7	6,285,741	0	23,412	39,169	621,856	621,856	343,434	677
8	4,170,408	0	24,770	42,391	621,384	621,384	361,450	683
9	2,539,911	4,686	24,039	40,295	620,832	620,832	426,139	4,480
10	1,416,239	6,358	23,670	40,613	1,230,184	1,230,184	450,609	7,990
11	4,577,133	0	23,789	40,460	1,355,984	1,355,984	374,418	4,863
12	5,174,092	0	27,387	47,244	2,880	2,880	266,782	812
13	5,724,345	0	31,882	44,872	0	0	265,235	832
14	6,887,683	0	39,089	45,250	1,080	1,080	251,214	678
15	6,531,547	0	41,832	47,723	715,288	715,288	291,042	588
16	5,464,107	4,345	42,187	45,501	652,784	652,784	334,467	473
17	8,069,754	0	45,760	49,471	652,256	652,256	365,083	478
18	3,409,164	0	45,354	48,781	1,214,344	1,214,344	403,529	481
19	5,170,682	0	42,126	44,989	1,033,168	1,033,168	402,328	471
20	2,472,954	0	29,930	25,346	367,808	367,808	397,547	769
21	4,184,730	0	31,235	24,198	465,768	465,768	457,831	4,402
22	5,780,027	0	46,008	40,454	255,928	255,928	458,554	5,384
23	4,031,005	253	50,748	50,325	801,160	801,160	458,167	5,267
24	3,561,206	0	40,819	43,571	749,352	749,352	450,772	5,622
25	5,672,755	0	33,526	41,753	766,080	766,080	451,419	5,306
26	7,517,015	0	41,535	44,983	750,664	750,664	462,184	5,308
27	5,707,823	11	46,979	48,187	769,632	769,632	375,994	986
28	4,164,721	0	46,578	45,886	137,728	137,728	433,628	2,974
29	1,921,810	0	47,704	44,888	276,712	276,712	430,884	3,548
30	1,175,845	22	43,734	41,761	19,992	19,992	260,081	425
31	3,109,227	0	42,439	43,448	20,376	20,376	216,968	465
Total	153,265,277	24,398	1,084,453	1,311,899	17,596,976	17,596,976	11,759,556	81,284

Table 36. San Luis Field Division Energy Data

(in kWh)

May 2009

Date	Dos Amigos Pumping Plant		Gianelli Pumping-Generating Plant			
	Total Load	SWP Load 1/	Total Generation	SWP Generation 1/	Total Load	SWP Load 1/
1	647,335	367,335	814,121	-25,879	10,725	10,725
2	639,427	359,427	1,120,207	280,207	10,879	10,879
3	878,317	590,317	1,281,830	381,830	7,601	7,601
4	662,557	382,557	1,322,607	332,607	8,404	8,404
5	718,286	438,286	1,220,153	230,153	10,681	10,681
6	914,619	634,619	418,858	418,858	7,777	7,777
7	973,119	693,119	916,234	916,234	6,919	6,919
8	871,146	591,146	1,095,446	341,446	9,273	9,273
9	841,370	561,370	738,892	738,892	9,174	9,174
10	1,253,487	1,253,487	1,551,253	1,145,253	8,217	8,217
11	525,922	245,922	781,352	-30,648	8,261	8,261
12	572,963	292,963	1,409,540	655,540	9,075	9,075
13	709,668	429,668	1,353,957	737,957	7,458	7,458
14	1,053,691	773,691	1,347,786	731,786	8,206	8,206
15	890,205	610,205	974,721	358,721	8,536	8,536
16	900,364	620,364	969,529	353,529	8,283	8,283
17	890,761	602,761	1,187,197	571,197	10,659	10,659
18	796,011	516,011	892,749	276,749	10,857	10,857
19	841,482	561,482	1,192,202	184,202	6,017	6,017
20	1,179,149	899,149	2,136,376	840,376	0	0
21	1,150,072	870,072	2,277,110	981,110	0	0
22	1,096,022	672,022	2,368,091	1,072,091	0	0
23	1,220,553	796,553	1,511,961	215,961	0	0
24	1,113,116	681,116	1,477,058	181,058	0	0
25	928,027	504,027	1,710,071	414,071	0	0
26	982,725	558,725	1,794,155	354,155	110	110
27	1,067,384	643,384	1,276,308	776,308	8,195	8,195
28	1,135,915	711,915	1,224,311	424,311	6,545	6,545
29	1,408,085	984,085	2,184,952	1,224,952	4,906	4,906
30	1,314,176	890,176	2,080,749	1,000,749	4,961	4,961
31	1,204,232	772,232	2,577,487	1,137,487	0	0
Total	29,380,186	19,508,186	43,207,263	17,221,263	191,719	191,719

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

Table 37. San Joaquin Field Division Plant Energy Load Data

(in kWh)

May 2009

Date	Coastal Branch					California Aqueduct			
	Las Perillas	Badger Hill	Devil's Den	Bluestone	Polonio	Buena Vista	Teerink	Chrisman	Edmonston
1	21,807	53,772	28,760	25,910	28,692	580,002	542,511	1,118,161	3,863,025
2	29,542	76,384	49,234	46,335	49,296	775,769	771,420	1,681,372	6,273,747
3	19,042	46,068	52,494	48,618	53,409	1,132,687	1,218,564	2,740,848	10,125,378
4	20,718	49,353	20,865	19,301	21,536	900,333	980,150	2,133,659	7,979,958
5	28,329	72,960	43,342	41,379	44,602	1,001,931	976,570	2,148,322	7,828,704
6	29,334	74,859	47,691	43,550	46,891	987,157	976,364	2,055,680	7,371,999
7	42,314	106,446	47,845	44,849	48,675	904,884	902,469	1,942,677	6,904,710
8	43,829	107,173	53,197	50,482	53,798	897,052	895,107	1,929,620	7,007,850
9	43,115	104,086	52,401	49,812	53,157	897,375	881,146	1,925,957	7,061,391
10	43,235	105,958	66,006	60,699	67,150	1,470,384	1,577,129	3,551,009	13,326,336
11	27,954	71,005	34,196	31,700	34,526	562,242	594,946	1,204,357	4,120,875
12	42,906	110,002	48,145	46,288	48,608	442,493	362,960	791,065	2,803,680
13	44,249	108,708	54,245	49,427	54,295	589,686	489,868	1,004,564	3,576,096
14	44,761	112,626	50,625	47,249	50,212	883,434	967,618	2,026,453	7,191,423
15	36,619	92,956	54,160	51,068	53,881	527,491	454,319	866,745	3,018,141
16	23,384	61,412	52,380	49,446	52,690	660,855	602,678	1,233,606	4,456,620
17	21,380	56,071	65,040	61,850	65,079	898,447	905,601	1,924,373	6,832,161
18	25,456	62,953	37,382	33,936	37,108	826,287	828,093	1,783,551	6,408,396
19	45,021	119,264	68,619	64,759	68,987	757,189	723,758	1,519,529	5,467,689
20	42,082	104,947	61,843	57,229	62,707	924,605	900,122	1,904,430	6,981,714
21	43,014	109,058	52,641	49,374	52,392	703,221	623,854	1,294,282	4,550,121
22	39,586	99,228	50,619	46,875	51,821	953,111	925,734	1,936,957	7,079,508
23	31,632	80,612	54,787	50,760	54,984	932,697	878,272	1,844,073	6,687,333
24	32,899	84,658	57,438	52,233	58,394	724,532	759,299	1,655,346	6,244,263
25	35,658	89,245	41,494	39,011	43,245	806,242	856,475	1,796,652	6,475,221
26	33,693	83,853	58,687	53,872	58,537	874,265	790,666	1,653,762	6,056,316
27	42,339	106,673	47,913	44,449	49,385	835,261	843,224	1,693,923	6,076,242
28	40,290	101,248	53,677	49,865	55,304	833,359	802,977	1,649,483	5,746,113
29	37,769	92,480	61,637	57,674	61,082	1,024,393	985,692	1,955,338	7,085,853
30	36,521	91,599	39,906	36,718	40,360	999,548	928,917	1,941,720	7,053,183
31	42,506	108,950	65,375	60,347	65,893	1,135,944	1,204,335	2,575,419	9,557,217
Total	1,090,984	2,744,607	1,572,644	1,465,065	1,586,696	26,442,876	26,150,838	55,482,933	201,211,263

Table 38. Southern Field Division Energy Data

(in kWh)

May 2009

Date	West Branch			East Branch				East Branch Extension		
	Oso Pumping Plant Load	Warne Powerplant Generation	Castaic SWP Gen /1	Alamo Powerplant Generation	Pearblossom Pumping Plant Load	Devil Canyon Powerplant Generation	Mojave Siphon Powerplant Generation	Green spot Pumping Plant	Crafton Hills Pumping Plant	Cherry Valley Pumping Plant
1	310,804	838,284	1,440,000	59,739	285,159	1,169,190	31,080	28,289	25,302	392
2	516,652	933,030	1,440,000	90,738	461,680	963,765	30,261	7,098	559	390
3	669,261	949,257	1,440,000	216,931	1,131,157	728,223	110,244	23,295	19,954	393
4	739,748	947,865	3,072,000	89,191	419,959	1,057,846	45,928	44,362	40,899	407
5	713,189	963,816	3,072,000	89,323	350,932	1,058,274	38,120	44,867	43,051	3,354
6	700,110	970,407	5,424,000	90,007	404,620	1,227,495	37,683	45,498	43,462	3,098
7	669,005	971,301	5,424,000	59,347	303,657	685,048	22,874	41,540	38,044	502
8	652,148	969,431	5,424,000	73,843	383,890	861,532	31,354	28,718	31,307	464
9	460,317	969,062	5,371,000	145,627	1,049,117	579,158	98,337	5,953	623	449
10	757,104	970,652	4,152,000	304,821	1,781,760	743,386	211,984	18,982	18,825	433
11	295,423	969,374	1,320,000	104,272	364,628	822,186	38,564	36,515	40,245	454
12	210,790	446,586	1,320,000	63,885	267,380	702,700	20,085	36,117	42,476	409
13	322,621	947,016	1,320,000	0	109,364	863,698	8,452	36,490	42,492	415
14	670,993	945,539	2,952,000	22,954	152,073	608,802	11,255	31,910	36,703	452
15	295,550	947,405	1,512,000	52,523	358,735	663,132	33,262	30,474	36,796	468
16	336,135	946,558	1,512,000	25,930	136,927	699,950	0	11,449	11,352	504
17	572,628	947,894	1,512,000	93,077	392,336	864,568	38,229	19,281	21,866	533
18	585,708	947,334	2,736,000	81,690	359,253	730,702	55,160	34,940	43,880	559
19	527,284	947,960	2,736,000	81,932	274,878	898,914	431	32,599	43,946	3,850
20	536,169	948,541	2,736,000	76,284	225,142	709,855	19,505	33,666	43,815	3,508
21	295,403	947,505	2,736,000	106,930	387,062	854,919	20,016	33,086	44,170	485
22	555,183	946,311	216,000	123,649	345,300	707,992	33,673	32,817	43,734	439
23	528,580	946,901	216,000	107,356	596,673	702,711	61,831	17,185	21,720	414
24	348,509	946,470	216,000	206,374	807,206	770,162	78,531	17,097	21,077	393
25	446,287	947,388	1,512,000	125,705	746,312	938,473	89,651	17,729	21,876	404
26	419,956	947,004	1,512,000	113,832	429,854	651,564	52,753	35,472	45,390	401
27	446,712	947,234	1,512,000	88,904	471,403	743,429	43,726	33,632	43,329	417
28	448,110	947,907	1,512,000	110,945	469,503	683,539	53,187	31,495	40,405	473
29	587,012	946,816	2,304,000	111,958	410,689	702,789	48,063	33,483	43,275	411
30	602,027	948,926	1,512,000	112,466	446,514	636,632	52,339	17,523	21,607	391
31	836,809	947,273	2,304,000	113,008	488,967	597,628	52,824	16,870	21,413	395
Total	16,056,227	28,897,047	71,467,000	3,143,241	14,812,130	24,628,262	1,469,402	878,432	993,593	25,657

1/ Energy delivered to SWP by LADWP at Sylmar substation; not necessarily related to actual Castaic operations.